
MINING.

1227

PRECIOUS METALS.

The output of the precious metals for the year ending May 31, 1880, was \$33,379,663 gold and \$41,110,957 silver—a total of \$74,490,620 (coining value). Although these figures are somewhat less than those reached in three or four exceptional years, they represent a yield considerably higher than the average annual product. From the beginning of mining operations, in 1804, up to the above date over a billion and a half of gold and nearly half a billion of silver were produced, and the vast importance of this element of the national resources is shown by the fact that one-third of the gold and one-half of the silver yearly produced in the world are mined within our borders.

While the Comstock lode, the former great producer of the country, has a greatly decreased output, this loss is compensated by a corresponding increase in other regions, notably the Leadville district, Colorado. As a whole, the mining industry of the country is in a healthy state, and the product of the precious metals in the future promises to show a regular and permanent increase.

The bullion product of the deep mines of the United States for the year under review amounted to 35 tons 900 pounds avoirdupois (1,033,974.6 ounces troy) of fine gold and 1,087 tons 900 pounds avoirdupois (31,717,297 ounces troy) of fine silver. That of the placer mines weighed 19 tons 1,824 pounds avoirdupois (580,766.6 ounces troy) in fine gold, with which were alloyed 2 tons 1,498 pounds avoirdupois (80,177.3 ounces troy) of silver. The total weight of fine bullion was no less than 55 tons 724 pounds avoirdupois (1,614,741.2 ounces troy) of gold and 1,090 tons 398 pounds avoirdupois (31,797,474.3 ounces troy) of silver. These huge figures may be better grasped, perhaps, by considering that the gold represents five ordinary car-loads, while a train of 109 freight cars of the usual capacity would be required to transport the silver. Historians have stated that during the early Spanish occupation whole galleons were freighted exclusively with silver from the mines of Mexico and Peru. This would hardly seem to be an exaggeration, in view of the fact that the present annual product of the United States would suffice to form the full cargo of a large modern vessel.

The total product of each state and territory, including the silver contents of placer gold, appears in Table LVII, which shows the aggregate bullion output of the United States for the census year.

TABLE LVII.—PRECIOUS METALS—*Gold and silver product of the*

State or Territory.		DEEP MINES.				
		Gold.		Silver.		Total.
		Ounces.	Dollars.	Ounces.	Dollars.	Dollars.
Total		1,033,974.6	21,374,152	31,717,297	41,007,296	62,381,448
1	Alabama	62.9	1,301	.....	.....	1,301
2	Alaska .....	.....	.....	.....	.....	.....
3	Arizona	a 8,802.6	a 181,966	a 1,798,722	a 2,325,568	a 2,507,534
4	California	414,571.7	8,569,959	837,354	1,082,616	9,652,575
5	Colorado	125,685.7	2,598,153	12,799,067	16,547,913	19,146,066
6	Dakota	157,459.8	3,254,984	54,577	70,563	3,325,547
7	Georgia	685.3	14,166	.....	.....	14,166
8	Idaho	23,025.4	600,009	347,676	449,510	1,049,519
9	Maine	145.1	2,999	5,589	7,200	10,199
10	Michigan .....	.....	.....	a 20,000	a 25,858	a 25,858
11	Montana	31,098.4	642,861	2,240,597	2,896,869	3,539,730
12	Nevada	234,050.0	4,838,243	9,614,230	12,430,239	17,268,482
13	New Hampshire	532.1	10,999	12,375	16,000	26,999
14	New Mexico	2,387.5	49,354	303,455	302,337	441,691
15	North Carolina	5,527.7	114,267	77	100	114,367
16	Oregon	8,289.8	171,365	15,165	19,807	190,972
17	South Carolina	314.4	6,499	.....	.....	6,499
18	Tennessee	96.7	1,998	.....	.....	1,998
19	Utah	13,138.0	271,587	3,668,433	4,742,916	5,014,503
20	Virginia	450.9	9,321	.....	.....	9,321
21	Washington	812.7	16,800	.....	.....	16,800
22	Wyoming	837.9	17,321	.....	.....	17,321

a Estimated.

It appears that of the ore mined during the census year 91.39 per cent. in tonnage was treated at the reduction works and 8.61 per cent. was left on the dumps. The average result of working treatment, as compared with assay value, was 81.86 per cent. of the gold contents, 79.68 per cent. of the silver, and 80.40 per cent. in all. Notwithstanding the large number of estimated amounts entering into the calculation, these results are probably a very close approximation to the truth. The highest average yield was from the Arizona ores, amounting to \$7 01 gold, \$86 24 silver, and \$93 25 total per ton. Of the localities producing any considerable amount of bullion Dakota, with an average of \$6 33 gold, \$0 14 silver, and \$6 47 total per ton, appears as the region where low-grade gold ores are worked to the best advantage, the per-

United States for the year ending May 31, 1880.

PLACER MINES.					ALL PRECIOUS-METAL MINES.				
Gold.		Silver.		Total.	Gold.		Silver.		Total.
Ounces.	Dollars.	Ounces.	Dollars.	Dollars.	Ounces.	Dollars.	Ounces.	Dollars.	Dollars.
580,766.6	12,005,511	80,177.3	103,651	12,109,172	1,614,741.2	33,379,663	31,797,474.3	41,110,957	74,490,620
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
287.9	5,951	α 29.4	α 51	6,002	62.9	1,301	-----	-----	1,301
α 1,451.2	α 29,999	α 198.8	α 257	α 30,256	237.9	5,951	39.4	51	6,002
415,105.0	8,580,982	52,804.2	68,271	8,649,253	α 10,253.8	α 211,965	α 1,798,920.8	α 2,225,825	α 2,537,790
4,921.9	101,745	1,052.8	1,361	103,106	829,076.7	17,150,941	890,158.2	1,150,887	18,301,828
-----	-----	-----	-----	-----	130,607.6	2,699,898	12,800,119.8	16,549,274	19,249,172
2,460.3	50,859	193.1	250	51,109	159,920.1	3,305,843	54,770.1	70,813	3,376,656
3,234.5	66,863	256.6	332	67,195	3,919.8	81,029	256.6	332	81,361
42,552.8	879,644	11,633.1	15,040	894,684	71,578.2	1,470,653	359,309.1	464,550	1,944,203
-----	-----	-----	-----	-----	145.1	2,999	5,569.0	7,200	10,199
-----	-----	-----	-----	-----	-----	-----	α 20,000.0	α 25,858	α 25,858
56,255.6	1,162,906	6,341.4	8,199	1,171,105	87,354.0	1,805,767	2,246,938.4	2,905,068	4,710,835
α 2,418.7	α 49,999	α 331.3	α 428	α 50,427	236,463.7	4,888,242	9,614,561.3	12,430,667	17,318,909
-----	-----	-----	-----	-----	532.1	10,999	12,375.0	16,000	26,999
-----	-----	-----	-----	-----	2,387.5	49,354	303,455.0	392,237	441,691
α 226.7	α 4,686	α 31.0	α 40	α 4,726	5,754.4	118,953	108.0	140	119,093
44,811.5	926,336	6,331.2	8,186	934,522	53,101.3	1,097,701	21,496.2	27,793	1,125,494
316.4	α 6,541	α 43.3	α 56	α 6,597	630.8	13,040	43.3	56	13,096
-----	-----	-----	-----	-----	96.7	1,998	-----	-----	1,998
α 987.5	α 20,000	α 132.5	α 171	α 20,171	14,105.5	291,587	3,668,565.5	4,743,087	5,034,674
-----	-----	-----	-----	-----	450.9	9,321	-----	-----	9,321
α 5,756.6	α 119,000	α 788.6	α 1,019	α 120,019	6,569.3	135,800	788.6	1,019	136,819
-----	-----	-----	-----	-----	837.9	17,321	-----	-----	17,321

GREGO

α Estimated.

centage of yield to assay value being 82.10 per cent. in gold, 42.42 per cent. in silver, and 80.47 per cent. total.

The relative quota contributed by each of the three great arbitrary divisions into which the country was apportioned in collecting the statistics is indicated in the accompanying abstract, from which it will be seen that the Pacific division furnishes 75.68 per cent. of the gold, 51.43 per cent. of the silver, and 62.30 per cent. of the total. The division of the Rocky mountains yields 23.60 per cent. of the gold, 48.45 per cent. of the silver, and 37.31 per cent. of the total. The product of the Eastern division represents 0.72 per cent. of the gold, 0.12 per cent. of the silver, and 0.39 per cent. of the total.

TABLE LVIII.—PRECIOUS METALS—*Production by geographical divisions.*

PACIFIC DIVISION.

State or Territory.	Product.		
	Gold.	Silver.	Total.
Total.....	<i>Dollars.</i> 25,261,840	<i>Dollars.</i> 21,143,879	<i>Dollars.</i> 46,405,719
Alaska.....	5,951	51	6,002
Arizona.....	211,965	2,325,825	2,537,790
California.....	17,150,941	1,150,887	18,301,828
Idaho.....	1,479,653	464,550	1,944,203
Nevada.....	4,888,242	12,430,607	17,318,909
Oregon.....	1,097,701	27,793	1,125,494
Utah.....	201,587	4,743,087	5,034,674
Washington.....	135,800	1,019	136,819

DIVISION OF THE ROCKY MOUNTAINS.

Total.....	7,878,183	19,917,492	27,795,675
Colorado.....	2,699,898	16,549,274	19,249,172
Dakota.....	3,305,843	70,813	3,376,656
Montana.....	1,805,767	2,905,068	4,710,835
New Mexico.....	49,354	392,337	441,691
Wyoming.....	17,321	.....	17,321

EASTERN DIVISION.

Total.....	239,640	49,586	289,226
Alabama.....	1,301	.....	1,301
Georgia.....	81,029	332	81,361
Maine.....	2,999	7,200	10,199
Michigan.....	.....	25,858	25,858
New Hampshire.....	10,999	16,000	26,999
North Carolina.....	118,953	140	119,093
South Carolina.....	13,040	56	13,096
Tennessee.....	1,998	.....	1,998
Virginia.....	9,321	.....	9,321

SUMMARY.

Total.....	33,379,663	41,110,957	74,490,620
Pacific division.....	25,261,840	21,143,879	46,405,719
Division of the Rocky mountains.....	7,878,183	19,917,492	27,795,675
Eastern division.....	239,640	49,586	289,226

An examination of the tenor of placer gold has resulted in fixing the average fineness for the United States at 0.876, and it is found that the placers produce over \$100,000 of silver annually, in alloy with the gold, an item hitherto disregarded by statisticians.

TABLE LIX.—PRECIOUS METALS—Percentage of placer gold and gold from deep mines in total gold product.

State or Territory.	Hydraulic, placer, drift, and river mines.	Deep mines.	State or Territory.	Hydraulic, placer, drift, and river mines.	Deep mines.
Alabama.....	100.00	100.00	New Mexico.....		100.00
Alaska.....	14.15	85.85	North Carolina.....	3.94	96.06
Arizona.....	50.03	49.97	Oregon.....	84.39	15.61
California.....	3.77	96.23	South Carolina.....	59.16	49.84
Colorado.....	1.54	98.46	Tennessee.....		100.00
Dakota.....	32.52	17.48	Utah.....	6.86	93.14
Georgia.....	59.45	40.55	Virginia.....		100.00
Idaho.....		100.00	Washington.....	87.63	12.37
Maine.....	64.40	35.60	Wyoming.....		100.00
Montana.....	1.02	98.98	United States (including Alaska).	36.06	64.03
Nevada.....		100.00			
New Hampshire.....					

The leading mining states are Colorado, California, and Nevada, followed by the territories of Utah, Montana, Dakota, Arizona, and Idaho, in the order named. The proportionate amounts of gold and of silver furnished by each vary greatly. Thus, while Colorado produces 40 per cent. of all the silver in the United States, she yields but 8 per cent. of the gold. California, on the other hand, the source of over half of the gold, yields less than 3 per cent. of the silver. A similar divergence is observed in other portions of the mining region, the two precious metals occurring side by side, but often in widely disproportionate quantities.

TABLE LX.—PRECIOUS METALS—Relative production of the States and Territories.

State or Territory.	GOLD.			Silver.	Total.
	Placer mines.	Deep mines.	Total gold.		
	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
Alabama.....		0.01	0.01		
Alaska.....	0.05		0.02		
Arizona.....	0.25	0.85	0.63	5.66	3.40
California.....	71.47	40.09	51.28	2.80	24.67
Colorado.....	0.85	12.16	8.09	40.25	25.84
Dakota.....	0.42	15.23	9.90	0.17	4.53
Georgia.....	0.56	0.07	0.24		0.11
Idaho.....	7.53	2.81	4.43	1.13	2.61
Maine.....		0.01	0.01	0.02	0.01
Michigan.....				0.06	0.03
Montana.....	9.69	3.01	5.41	7.07	6.34
Nevada.....	0.42	22.64	14.64	30.24	23.27
New Hampshire.....		0.05	0.03	0.04	0.04
New Mexico.....		0.23	0.15	0.95	0.59
North Carolina.....	0.04	0.53	0.30		0.16
Oregon.....	7.71	0.80	3.29	0.07	1.51
South Carolina.....	0.05	0.03	0.04		0.02
Tennessee.....		0.01	0.01		
Utah.....	0.17	1.27	0.87	11.54	6.76
Virginia.....		0.04	0.03		0.01
Washington.....	0.99	0.08	0.41		0.18
Wyoming.....		0.08	0.05		0.02
Total.....	100.00	100.00	100.00	100.00	100.00

The study of the relation of production to population develops some curious figures, ranging from an average of one mill per capita in Alabama to \$278 14 per capita in Nevada, the intervening series indicating with great precision to what extent mining is a factor of wealth in the several localities.

The product per square mile varies from 1 cent in the case of Alaska to \$185 20 in that of Colorado, the intermediate averages forming another standard of developed mineral resources, so far as the precious metals are concerned, from a different point of view, but roughly corresponding to that of the relation of production to population.

TABLE LXI.—PRECIOUS METALS—Average product of gold and silver per capita and per square mile.

States and Territories.	AVERAGE PRODUCT.					
	Per capita.			Per square mile.		
	Gold.	Silver.	Total.	Gold.	Silver.	Total.
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
Alabama.....	0.001	-----	0.001	0.02	-----	0.03
Alaska.....	0.200	-----	0.200	0.01	-----	0.01
Arizona.....	5.240	57.510	62.750	1.87	20.580	22.45
California.....	19.830	1.330	21.160	108.30	7.270	115.57
Colorado.....	13.890	85.160	99.050	25.98	159.240	185.22
Dakota.....	24.460	0.520	24.980	22.17	0.480	22.65
Georgia.....	0.050	0.0002	0.050	1.36	0.010	1.37
Idaho.....	45.370	14.250	59.620	17.45	5.480	22.93
Maine.....	0.005	0.011	0.016	0.09	0.220	0.31
Michigan.....	-----	0.020	0.020	-----	0.440	0.44
Montana.....	46.110	74.190	120.300	12.36	19.890	32.25
Nevada.....	78.510	199.630	278.140	44.16	112.290	156.45
New Hampshire.....	0.030	0.050	0.080	1.18	1.720	2.90
New Mexico.....	0.410	3.280	3.690	0.40	3.200	3.60
North Carolina.....	0.080	0.0001	0.080	2.28	0.003	2.28
Oregon.....	6.280	0.160	6.440	11.43	0.290	11.72
South Carolina.....	0.010	-----	0.010	0.43	-----	0.43
Tennessee.....	0.001	-----	0.001	0.05	-----	0.05
Utah.....	2.030	32.940	34.970	3.43	55.820	59.25
Virginia.....	0.006	-----	0.006	0.22	-----	0.22
Washington.....	1.810	-----	1.810	1.96	0.015	1.98
Wyoming.....	0.830	-----	0.830	0.18	-----	0.18
United States (including Alaska).....	0.660	0.820	1.480	9.31	11.440	20.75
United States (not including Alaska).....	0.660	0.820	1.480	11.03	13.590	24.62
United States (including only the states and territories producing gold and silver, with Alaska).....	2.600	3.200	5.800	14.68	18.020	32.70
United States (including only the states and territories producing gold and silver, and not including Alaska).....	2.610	3.210	5.820	10.44	23.940	43.38
Average for Colorado, California, Nevada, Utah, Montana, Dakota, Arizona, and Idaho.....	21.040	26.870	47.910	33.47	42.740	76.21

TABLE LXII.—PRECIOUS METALS—Rank of the States and Territories in production of the precious metals.

In actual product.			In product per capita.			In product per square mile.		
Gold.	Silver.	Total.	Gold.	Silver.	Total.	Gold.	Silver.	Total.
1. California.	1. Colorado.	1. Colorado.	1. Nevada.	1. Nevada.	1. Nevada.	1. California.	1. Colorado.	1. Colorado.
2. Nevada.	2. Nevada.	2. California.	2. Colorado.	2. Colorado.	2. Montana.	2. Nevada.	2. Nevada.	2. Nevada.
3. Utah.	3. Utah.	3. Nevada.	3. Montana.	3. Colorado.	3. Colorado.	3. Colorado.	3. Utah.	3. California.
4. Colorado.	4. Montana.	4. Utah.	4. Arizona.	4. Arizona.	4. Arizona.	4. Dakota.	4. Arizona.	4. Utah.
5. Montana.	5. Arizona.	5. Montana.	5. Utah.	5. Utah.	5. Idaho.	5. Idaho.	5. Montana.	5. Montana.
6. Idaho.	6. California.	6. Colorado.	6. Idaho.	6. Idaho.	6. Idaho.	6. California.	6. California.	6. Idaho.
7. Oregon.	7. Utah.	7. Oregon.	7. New Mexico.	7. New Mexico.	7. Dakota.	7. Oregon.	7. Idaho.	7. Dakota.
8. Utah.	8. New Mexico.	8. Utah.	8. California.	8. California.	8. California.	8. Utah.	8. Arizona.	8. Arizona.
9. Arizona.	9. Oregon.	9. Oregon.	9. Dakota.	9. Oregon.	9. Oregon.	9. N. Carolina.	9. New Mexico.	9. Oregon.
10. Washington.	10. Michigan.	10. New Mexico.	10. Oregon.	10. New Mexico.	10. New Mexico.	10. Washington.	10. Michigan.	10. New Mexico.
11. N. Carolina.	11. Oregon.	11. Washington.	11. Washington.	11. Washington.	11. Washington.	11. Arizona.	11. Maine.	11. N. Carolina.
12. Georgia.	12. N. Carolina.	12. N. Carolina.	12. Wyoming.	12. Michigan.	12. Wyoming.	12. Georgia.	12. Oregon.	12. N. Carolina.
13. N. Hampshire.	13. Maine.	13. N. Hampshire.	13. Maine.	13. Maine.	13. Alaska.	13. N. Hampshire.	13. N. Carolina.	13. Washington.
14. N. Hampshire.	14. N. Hampshire.	14. N. Hampshire.	14. N. Carolina.	14. N. Carolina.	14. N. Carolina.	14. S. Carolina.	14. Georgia.	14. Georgia.
15. Michigan.	15. Michigan.	15. Michigan.	15. N. Carolina.	15. N. Carolina.	15. N. Carolina.	15. New Mexico.	15. Michigan.	15. Michigan.
16. N. Hampshire.	16. N. Hampshire.	16. N. Hampshire.	16. New Mexico.	16. New Mexico.	16. New Mexico.	16. Virginia.	16. S. Carolina.	16. S. Carolina.
17. Virginia.	17. S. Carolina.	17. S. Carolina.	17. Michigan.	17. Michigan.	17. Michigan.	17. Wyoming.	17. Maine.	17. Maine.
18. Maine.	18. Virginia.	18. Virginia.	18. Maine.	18. Maine.	18. Maine.	18. Maine.	18. Virginia.	18. Virginia.
19. Virginia.	19. Virginia.	19. Virginia.	19. S. Carolina.	19. S. Carolina.	19. S. Carolina.	19. Tennessee.	19. Wyoming.	19. Wyoming.
20. Tennessee.	20. Alaska.	20. Tennessee.	20. Tennessee.	20. Tennessee.	20. Tennessee.	20. Alabama.	20. Tennessee.	20. Tennessee.
21. Alabama.	21. Tennessee.	21. Tennessee.	21. Virginia.	21. Virginia.	21. Virginia.	21. Alabama.	21. Alabama.	21. Alabama.
22. Alabama.	22. Alabama.	22. Alabama.	22. Alabama.	22. Alabama.	22. Alabama.	22. Alaska.	22. Alaska.	22. Alaska.

In addition to the returns received directly from the mines there are several minor points to be included in the total yield. A larger item than it is usually considered to be is the annual hoarding of rich specimens. This is not accounted for in the mine production as reported. While it is impossible to state the actual amount thus absorbed with any degree of precision, a careful estimate would place the value of the gold nuggets and ore annually added to the cabinets of collectors at not less than \$150,000, and that of the silver ore at about \$50,000. This, in view of the great number of mineral collections maintained throughout the mining territory, is certainly not an overestimate. There is also quite an extensive manufacture of gold quartz into jewelry and souvenirs, particularly in San Francisco. The value so absorbed probably does not fall short of \$50,000 annually. In 1870 the United States mining commissioner estimated the amount of gold hoarded as specimens or worked up by local jewelers at \$400,000. The same authority at that period estimated the annual loss of gold dust in handling as currency at \$100,000; but as the practice of using dust for money has almost disappeared, the amount so lost is now very small. Another indefinite quantity is the value of precious metal lost in melting, in assay grains, etc. Summing up the estimates for these additional items, the following result is reached:

TABLE LXIII.—PRECIOUS METALS—*Production unaccounted for in the preceding tables.*

	Gold.	Silver.	Total.
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
Total	33,669,663	41,170,957	74,780,620
Bullion product shown in preceding tables	33,379,663	41,110,957	74,490,620
Estimated value of specimens hoarded	150,000	50,000	200,000
Estimated value of gold quartz made into jewelry and souvenirs ..	50,000	.....	50,000
Estimated value of gold dust lost in handling as currency	10,000	.....	10,000
Estimated loss in melting and assaying, assay grains, etc	20,000	10,000	30,000

NON-PRECIOUS MINERALS.

TABLE LXIV.—Condensed statement of mineral production of regular mining establishments of non-precious minerals for the United States, by substances: 1880.

Minerals.	Number of states and territories.	Number of counties.	Number of establishments.	Tons of 2,000 pounds produced in census year 1880.	Value of product.	Value of materials consumed.
Total			4, 520		Dollars. 131, 148, 261	Dollars. 16, 838, 239
Bituminous coal	24	335	2, 090	41, 860, 055	52, 427, 863	4, 860, 403
Anthracite coal	3	10	277	^a 28, 621, 371	42, 139, 740	6, 732, 592
Iron ore	23	160	805	7, 064, 829	20, 470, 756	2, 806, 011
Copper ore	21	27	53	1, 007, 245	8, 886, 295	1, 391, 826
Lead and zinc	10	29	296	177, 093	3, 836, 161	331, 970
Minor minerals	21	107	189		3, 387, 444	625, 347

Minerals.	Men employed.	Boys employed.	Total hands employed.	Wages paid annually.	Number of steam-engines.	Horse-power of steam-engines.	Value of all machinery, including engines.	Capital employed and invested.
Total	No. 195, 968	No. 24, 507	No. 220, 475	Dollars. 71, 392, 502	3, 732	182, 051	Dollars. 22, 915, 274	Dollars. 364, 909, 324
Bituminous coal	93, 957	6, 150	100, 116	32, 001, 460	855	26, 168	2, 668, 861	103, 109, 807
Anthracite coal	54, 616	16, 132	70, 748	22, 693, 407	1, 667	105, 807	13, 915, 915	154, 504, 336
Iron ore	30, 080	1, 588	31, 668	9, 538, 117	821	24, 838	3, 211, 558	61, 782, 287
Copper ore	5, 956	292	6, 258	3, 214, 031	136	13, 541	2, 634, 600	31, 607, 596
Lead and zinc	7, 323	160	7, 483	2, 040, 265	167	6, 739	484, 340	7, 442, 983
Minor minerals	4, 026	176	4, 202	1, 305, 222	86	4, 958		6, 262, 315

^a Anthracite irregular, 28,441 tons, valued at \$56,938.

The above table was compiled with a view to the comparison of the economic features of the industries in 1880 and 1870, and consequently it covers the production of the regular mining establishments only, excluding the "farmers' mines". From these last, 5,368 returns were received, aggregating 909,877 tons of iron ore and 916,569 tons of bituminous coal.

The statistics of the copper-mining industry, as given in the table, are restricted to the production of the country east of the 100th meridian. The copper mining in Arizona, California, etc., results not in the production of copper alone, but in that of "copper matte", a mixture of copper and other metals, which is sold in the East to be refined. The copper ore east of the 100th meridian is, however, valuable for the copper

alone, with few exceptions. The amount of copper produced from both sources, as taken from the statistics of smelting establishments, is 54,172,017 pounds metallic copper, of which 9,041,884 pounds were refined in eastern works and 45,130,133 pounds smelted in western works (all lake Superior).

The statistics of lead and zinc, which are given together, for the reason that in the northwestern districts—Illinois, Iowa, and Wisconsin—they are generally produced from the same mine, cover all the mining returns where either of these metals was the main product. The mining returns of the northwestern districts, where it was out of the question to gather the full statistics from the miners themselves, for various reasons, especially on account of the irregular and constantly shifting character of the local industry, have been increased to make them correspond to the amounts of lead and zinc ore which the smelters' returns showed were produced there during the census year. The total annual yield of these metals, taken from the statistics of the smelting establishments, is as follows:

LEAD.		Pounds.
Smelted from ores		66,970,838
Refined from base bullion, the principal value of which was silver		95,967,267
Total yield of metallic lead, census year		<u>162,938,105</u>

ZINC.		
Metallic zinc or spelter		46,477,999
Zinc oxide (produced in chemical works from ore, 20,213,631 pounds), equivalent to metallic zinc		16,203,460
Total yield of metallic zinc, census year		<u>62,681,459</u>

RECAPITULATION.

The grand total of the production of the non-precious minerals embraced in this report would therefore be, bringing together the regular industrial production, the irregular production, and the production as a by-product in precious-metal mining, as follows:

Anthracite coal (a)	Tons. 28,649,812	Dollars. 42,196,678
Bituminous coal, regular product (b)	41,860,055	52,427,868
Bituminous coal, irregular product	916,569	1,692,305
Total coal	<u>71,426,436</u>	<u>95,716,851</u>
Iron ore, regular product	7,064,829	20,470,756
Iron ore, irregular product	909,877	2,686,201
Total iron ore	<u>7,974,706</u>	<u>23,156,957</u>
	Pounds.	Dollars.
Metallic copper	54,172,017	9,458,434
Metallic lead	162,938,105	7,935,140
Metallic zinc	62,681,459	4,240,006
Minor minerals		<u>3,387,444</u>
Total value of all non-precious mineral product		<u>143,894,832</u>

a Includes irregular product.

b Includes the coal and lignite mined west of the 100th meridian. With this exception the product is from east of that line.

TABLE LXV.—NON-PRECIOUS MINERALS—Averages applicable to mineral products from regular establishments from census of 1870 and 1880 in the United States.

Kind of mineral product.	Value of machinery per ton raised yearly, 1880.	Value of machinery per dollar of product yearly, 1880.	Tons raised yearly per horsepower of engines, 1880.	Tons raised yearly per horsepower of engines, 1870.	Value produced per horsepower of engines, 1880.	Value produced per horsepower of engines, 1870.	Material used per ton, 1880.	Material used per ton, 1870.
Anthracite coal.....	0.49	0.33	271.0	320.0	398.0	786.0	0.24	0.23
Bituminous coal.....	0.06	0.05	1,600.0	1,287.0	2,004.0	2,622.0	0.12	0.12
Iron ore.....	0.45	0.16	284.0	396.0	824.0	1,540.0	0.41	0.38
Copper ore.....	2.62	0.30	74.0	111.0	655.0	823.0	1.33	0.84
Lead and zinc.....	2.74	0.12	23.0	23.0	621.0	1,600.0	1.28	1.28
Total mineral product, including minor minerals.	0.29	0.17	432.0	472.0	732.0	1,186.0	0.21	0.21

Kind of mineral product.	Wages paid per ton, 1880.	Wages paid per ton, 1870.	Values produced per hand per year, 1880.	Values produced per hand per year, 1870.	Tons raised per hand per year, 1880.	Tons raised per hand per year, 1870.	Wages paid per hand per year, 1880.	Wages paid per hand per year, 1870.
Anthracite coal.....	0.79	1.47	596.0	725.0	405.0	295.0	321.0	433.0
Bituminous coal.....	0.78	1.24	524.0	841.0	418.0	412.0	325.0	511.0
Iron ore.....	1.35	2.81	1,648.0	970.0	779.0	325.0	301.0	455.0
Copper ore.....	2.19	3.83	1,429.0	962.0	361.0	133.0	514.0	501.0
Lead and zinc.....	14.92	559.0	330.0	330.0	24.0	332.0	353.0	350.0
Total mineral product, including minor minerals.	0.91	1.47	596.0	833.0	857.0	332.0	327.0	489.0

Kind of mineral product.	Per cent. of value of production paid for labor, 1880.	Per cent. of value of production paid for labor, 1870.	Per cent. of value of production paid for material, 1880.	Per cent. of value of production paid for material, 1870.	Capital necessary for dollar of production yearly, 1880.	Capital necessary for dollar of production yearly, 1870.	Value of product per ton, 1880.	Value of product per ton, 1870.	Number of boys to one hundred men, 1880.	Number of boys to one hundred men, 1870.
Anthracite coal.....	53.9	59.8	15.9	9.4	3.87	1.33	1.47	2.46	29.5	36.6
Bituminous coal.....	62.2	60.8	9.3	5.9	1.97	1.08	1.25	0.64	22.7	23.7
Iron ore.....	46.6	51.8	14.1	9.7	3.02	1.55	2.96	0.62	24.4	24.4
Copper ore.....	36.2	52.0	15.7	11.3	3.58	1.50	8.82	0.37	23.3	23.3
Lead and zinc.....	63.1	39.4	7.9	5.2	1.73	1.99	23.63	1.67	23.2	23.2
Total mineral product, including minor minerals.	54.6	59.0	12.8	8.6	1.78	1.50	1.67	1.51	23.2	16.0

TABLE LXVI.—NON-PRECIOUS MINERALS—Percentage of gain per ton in mineral products in the United States since the census of 1870.

Kind of product.	Increase in number of men employed.	Increase in number of boys employed.	Increase in number of total employes.	Increase in value of entire product.	Increase of tonnage of product.	Increase in value of materials used.	Change in yearly earnings paid per hand.	Change in total wages paid.
Anthracite coal	24.1	77.6	33.2	9.5	32.7	87.0	α 25.9	α 1.4
Bituminous coal	131.7	453.2	140.3	49.7	143.4	135.0	α 36.2	53.1
Iron ore	105.9	347.3	110.8	53.0	108.1	126.3	α 33.3	39.5
Copper ore	14.0	70.8	15.8	70.2	43.0	137.2	α 2.6	18.8
Lead and zinc	340.9	201.9	336.6	174.3	-----	321.2	α 0.9	339.6
Total mineral products, including minor minerals.	84.1	126.7	88.0	41.0	113.2	85.6	α 22.3	31.6

Kind of product.	Increase in total capital.	Increase in horse-power of engines.	Change in value of yearly product per hand.	Increase in tonnage raised yearly per hand.	Change in per cent. of value of product paid for labor.	Change in per cent. of value of product paid for materials.	Change in price per ton of product.
Anthracite coal	202.9	116.2	α 17.8	37.3	α 5.9	6.5	α 40.2
Bituminous coal	74.3	35.9	α 37.7	1.2	α 1.4	3.4	α 38.7
Iron ore	247.6	189.7	α 26.5	α 1.3	α 7.2	4.4	α 25.4
Copper ore	303.3	114.3	47.6	26.8	α 15.3	4.4	19.3
Lead and zinc	145.8	607.1	α 37.3	-----	α 2.7	2.7	-----
Total mineral product, including minor minerals.	153.3	117.9	α 24.2	14.5	α 3.9	2.6	32.3

α Decrease.

In the two preceding tables the values of 1870 are, of course, reckoned in the currency of the period. As remarked before, the industries considered are the mining industries proper, which are limited to the work of extracting the mineral from the ground and such preparation or dressing on the spot as is necessary to fit it for transportation. When an industry is compound, embracing both mining and manufacturing, as, for instance, when a furnace company mines ore and reduces it to the state of pig iron, that part of the return which relates to manufacturing has been carefully eliminated.

The "irregular production" by persons whose chief business was not mining does not enter into the totals in Table LXIV, and was probably not included in the returns of 1870, at least in the case of the bituminous coal industry, since it is made up of very small individual contributions.

For the purposes of comparison, the irregular product of iron ore in 1880 is also excluded from Table LXV.

In the volume on Industrial Statistics, census of 1870, the Superintendent remarks that the iron ore raised that year was understated by an amount corresponding closely to the "irregular product".

The copper, lead, and zinc statistics, as compiled from the census of 1870, correspond very closely in extent and scope to the statistics of those industries as given in Table LXIV for 1880.

Therefore Tables LXV and LXVI present, as nearly as possible, a correct general view of the advance in the mining industries during the past decade.

The amounts of copper ore and rock mined were not specified in the census of 1870, but only the value of the product. For the purpose of comparison, the weight of the ore and rock has been obtained from independent sources. It will be observed that this is the only mineral product which has increased in value per unit since 1870. This is owing to the increase in the percentage of metal contained in the rock raised in the Lake Superior region, the leading mine being exceptionally fortunate in this respect.

The weight of lead and zinc ore was not specified in the census of 1870, and no sufficient data have been obtained to estimate it. It is therefore necessarily omitted in the comparison tables.

No computations have been made in the returns of the minor minerals, as they embrace so many materials of different natures. The minor mineral production is, however, included in the total, though not large enough to affect the percentages.

TABLE LXVII.—NON-PRECIOUS MINERALS—*Product of the non-precious*

	States and Territories.	Anthracite coal.	Value.	Bituminous coal.	Value.	Iron ore.	Value.
		<i>Tons.</i>	<i>Dollars.</i>	<i>Tons.</i>	<i>Dollars.</i>	<i>Tons.</i>	<i>Dollars.</i>
	The United States ..	28,621,371	42,139,740	41,860,055	52,427,868	7,064,829	20,470,756
1	Alabama			322,934	475,559	184,110	189,108
2	Alaska						
3	Arizona						
4	Arkansas			14,778	33,535		
5	California			236,950	663,013		
6	Colorado			462,747	1,041,350		
7	Connecticut					35,018	147,799
8	Delaware					2,726	6,553
9	Georgia			154,644	231,605	72,705	120,692
10	Idaho						
11	Illinois			6,089,514	8,739,755		
12	Indiana			1,449,496	2,143,093		
13	Iowa			1,442,333	2,473,155		
14	Kansas			763,597	1,498,168		
15	Kentucky			935,857	1,123,046	33,522	88,930
16	Maine					6,000	9,000
17	Maryland			2,227,844	2,584,455	57,940	118,050
18	Massachusetts					62,037	226,130
19	Michigan			100,800	224,500	1,837,712	6,034,648
20	Missouri			543,990	1,037,100	386,197	1,674,875
21	Montana			224	800		
22	Nebraska			200	750		
23	Nevada						
24	New Hampshire						
25	New Jersey					754,872	2,900,442
26	New Mexico						
27	New York					1,239,759	3,499,132
28	North Carolina			350	400	3,276	5,102
29	Ohio			5,932,853	7,629,488	198,835	448,000
30	Oregon			43,205	97,810	6,972	4,669
31	Pennsylvania	28,612,595	42,116,500	18,075,548	18,267,151	1,820,561	4,318,999
32	Rhode Island	6,176	15,440				
33	South Carolina						
34	Tennessee			494,491	628,954	89,033	129,951
35	Texas						
36	Vermont					560	2,750
37	Virginia	2,600	7,800	40,520	92,837	169,683	384,321
38	Washington			148,015	389,046		
39	West Virginia			1,792,570	1,971,847	60,871	88,595
40	Wisconsin					41,440	73,000
41	Wyoming			589,595	1,080,451		

a Irregular product of anthracite

TABLE LXVIII.—*The mineral products by certain industrial fields: 1880.*

ANTHRACITE COAL.

1	Regions.	Product.	Value.
		<i>Tons.</i>	<i>Dollars.</i>
	Pennsylvania	28,612,595	42,116,500

BITUMINOUS COAL.

1	Western Pennsylvania	12,832,664	12,287,907
2	Ohio and West Virginia	7,725,423	9,601,335
3	Tennessee and Alabama	817,425	1,104,313
4	Missouri, Kansas, and Iowa	2,740,920	5,008,423
5	Illinois	6,089,514	8,739,755
6	Indiana	1,449,496	2,143,093
7	Maryland	2,227,844	2,584,455
8	Clearfield, Bradford, and Tioga counties, Pennsylvania	3,162,193	3,536,335

IRON ORE.

1	Michigan	1,837,712	6,034,648
2	New York	1,239,759	3,499,132
3	New Jersey	754,872	2,900,442
4	All others	3,232,486	8,036,534

mineral industries (regular establishments only) by substances and by States: 1880.

Lead ore.	Value.	Zinc ore.	Value.	Copper ingots.	Value.	Minor minerals.	Value.	Total value of all products.
Tons.	Dollars.	Tons.	Dollars.	Pounds.	Dollars.	Tons.	Dollars.	Dollars.
53, 140	2, 102, 948	123, 868	1, 733, 213	56, 920, 266	8, 886, 295		3, 387, 444	131, 143, 264
								664, 667
				3, 933				
				3, 183, 750				33, 535
				720, 000		2, 597	19, 948	632, 961
				1, 578				1, 041, 350
				622		14, 510	163, 310	147, 799
				150, 000			120, 135	169, 863
								472, 432
772	30, 200	3, 000	39, 600				102, 324	8, 911, 279
384	19, 172					7, 599	22, 291	2, 165, 384
10, 681	460, 080	7, 248	131, 169					2, 492, 327
								2, 090, 317
								1, 211, 976
				162, 560	18, 040	1	2, 000	29, 040
		672	7, 200	30, 910			159, 303	2, 869, 003
				45, 830, 262	7, 979, 232		101, 970	328, 100
28, 315	1, 473, 571	34, 344	599, 373	230, 717	25, 730		41, 057	14, 279, 437
				1, 212, 500			13, 196	4, 828, 845
								800
				734, 730		50		750
				34, 050	5, 993		112, 550	118, 543
		39, 381	451, 070			33, 828	40, 270	3, 391, 782
				4, 055				
				1, 640, 000	350, 000		1, 623, 011	5, 122, 143
							79, 855	435, 357
								8, 077, 488
								102, 479
		20, 459	304, 568	214, 736	36, 256		426, 102	65, 559, 576
								15, 440
60	2, 500	3, 699	22, 145	153, 830		7, 427	27, 709	27, 709
				5, 024				783, 550
				2, 647, 834	469, 495		48, 788	521, 033
11, 200	33, 000	10, 448	24, 126	678			179, 125	721, 219
								339, 046
							4, 500	2, 064, 942
1, 728	78, 525	4, 617	64, 562	18, 087	1, 549		100, 000	317, 636
								1, 080, 451

coal, 28,441 tons; value, \$56,938.

TABLE LXVIII.—The mineral products by certain industrial fields: 1880.

ANTHRACITE COAL.

Horse-power.	Wages.	Material.	Value per ton.	Horse-power of engines per ton yearly product.	Wages paid per ton.	Materials consumed per ton.
	Dollars.	Dollars.	Dollars.		Dollars.	Dollars.
165, 752	22, 664, 055	6, 723, 477	1 47	0. 00369	0 79	0 24

BITUMINOUS COAL.

4, 540	7, 803, 572	1, 240, 868	0 96	0. 00035	0 61	0 10
4, 239	6, 398, 868	1, 182, 314	1 24	0. 00055	0 83	0 15
557	665, 553	95, 906	1 35	0. 00068	0 81	0 12
2, 033	2, 956, 448	353, 061	1 82	0. 00076	1 08	0 13
8, 294	6, 035, 919	796, 149	1 41	0. 00136	0 99	0 13
1, 717	1, 465, 164	158, 604	1 48	0. 00118	0 97	0 11
630	1, 379, 079	194, 942	1 16	0. 00039	0 61	0 09
205	1, 836, 444	316, 471	1 21	0. 00007	0 58	0 10

IRON ORE.

6, 574	2, 573, 857	941, 711	3 29	0. 00358	1 40	0 51
3, 639	1, 507, 385	534, 395	2 82	0. 00245	1 22	0 43
4, 486	1, 606, 257	584, 229	3 84	0. 00594	2 13	0 77
10, 739	3, 850, 608	835, 676	2 49	0. 00322	1 19	0 26

QUARRIES.

TABLE LXIX.—General statistics of the quarrying industries of the United States: 1880.

	States and Territories.	Number of quarries.	Capital invested.	Product in census year.	Value of product in census year.	Number of machines employed.			Value of explosives used in census year.	
						For quarrying.	For hoisting.	For dressing.		
	Total for United States.	1, 525	<i>Dollars.</i> 25, 414, 497	<i>Cubic feet.</i> 115, 380, 133	<i>Dollars.</i> 18, 356, 055	339	2, 290	1, 308	<i>Dollars.</i> 132, 175	
	TOTALS BY KINDS OF ROCKS.									
1	Marble and limestone (a) ..	616	10, 565, 497	65, 523, 965	6, 856, 681	190	709	499	61, 408	
2	Sandstone	502	6, 229, 600	24, 776, 930	4, 780, 391	40	634	95	27, 571	
3	Crystalline silicious rocks ..	313	5, 291, 250	20, 506, 563	5, 188, 998	64	763	322	70, 897	
4	Slate	94	3, 328, 150	4, 572, 670	1, 529, 985	45	184	392	32, 799	
	TOTALS BY STATES AND TERRITORIES.									
1	California	2	100, 000	413, 000	172, 450	.....	6	14	1, 000
2	Colorado	6	13, 500	662, 790	50, 400	.....	2	.....	500
3	Connecticut	38	1, 730, 500	3, 527, 400	1, 087, 425	27	116	5	13, 530	
4	Dakota	1	3, 500	33, 400	12, 000	.....	1	.....	324
5	Delaware	3	4, 800	45, 900	12, 600	.....	3	.....	.....
6	Georgia	3	60, 600	288, 960	68, 980	2	2	.....	615
7	Illinois	43	2, 120, 000	13, 321, 199	1, 342, 572	15	63	22	6, 805	
8	Iowa	131	556, 775	10, 929, 783	670, 754	2	109	11	6, 853	
9	Indiana	70	613, 560	8, 413, 827	633, 775	13	107	14	2, 360	
10	Kansas	19	73, 700	1, 406, 346	142, 570	.....	34	3	35
11	Kentucky	19	143, 250	1, 724, 675	92, 216	2	13	9	927	
12	Maine	74	2, 285, 500	2, 465, 670	1, 250, 086	29	178	95	14, 744	
13	Maryland	17	307, 935	1, 375, 917	346, 629	4	31	19	5, 725	
14	Massachusetts	113	1, 616, 850	5, 468, 030	1, 711, 104	23	265	169	29, 355	
15	Michigan	9	74, 700	648, 060	79, 165	.....	13	.....	1, 222
16	Minnesota	41	281, 225	3, 169, 113	255, 818	.....	67	3	3, 812
17	Missouri	34	328, 550	4, 699, 600	613, 171	6	29	6	3, 050	
18	Nebraska	1	5, 000	330, 000	15, 000	.....	4	.....	125
19	New Hampshire	39	128, 800	1, 920, 340	303, 096	1	109	14	4, 216	
20	New Jersey	25	281, 900	3, 251, 621	514, 420	2	29	.....	2, 596
21	New York	251	1, 080, 445	6, 057, 278	1, 261, 495	14	152	52	14, 819	
22	Ohio	245	4, 166, 802	19, 673, 309	2, 511, 647	16	447	79	18, 763	
23	Pennsylvania	164	3, 077, 885	15, 310, 184	1, 044, 208	56	173	213	32, 820	
24	Rhode Island	17	476, 000	1, 352, 000	623, 000	6	43	2	2, 228	
25	Tennessee	13	131, 700	732, 621	192, 695	14	30	4	665	
26	Vermont	61	4, 732, 040	2, 468, 150	1, 752, 333	88	183	537	12, 360	
27	Virginia	14	721, 250	1, 316, 556	430, 673	2	30	24	3, 911	
28	Washington	2	2, 500	32, 500	3, 044	.....	1	.....	20
29	West Virginia	10	55, 350	294, 700	16, 689	3	13	.....	696
30	Wisconsin	60	286, 820	3, 981, 304	227, 065	15	21	.....	7, 213

a With "Marble and limestone" is included one quarry of serpentine rocks.

QUARRIES.

TABLE LXIX.—General statistics of the quarrying industries of the United States: 1880.

Number of months in operation in census year.			Number of laborers employed during census year.					Number of animals employed.			Means of transportation.			
On full time.	On three-fourths time.	On one-half time.	Greatest number employed.	Males above 16 years of age.	Males below 16 years of age.	Employed in quarrying.	Employed in dressing.	Number of horses.	Number of mules.	Number of oxen.	Number of wagons.	Number of vessels.	Number of cars.	Number of locomotives.
13,021	293	112	39,723	38,945	778	25,726	9,840	8,059	851	1,096	3,685	265	651	5
5,061	87	58	15,646	15,363	283	11,269	2,756	4,439	586	163	1,571	111	363	2
4,166	22	16	9,567	9,428	139	6,623	1,219	2,091	140	277	1,023	73	72	2
2,532	126	38	11,477	11,340	137	6,139	4,501	1,258	105	652	981	81	144	1
1,022	58	3	3,033	2,814	219	1,695	1,364	271	20	4	110	.....	72	1
23	.....	.....	195	194	1	50	100	8	.....	16	3	.....	.....	.....
60	.....	.....	134	134	.....	129	.....	17	5	.....	9	.....	.....	.....
341	36	2	1,902	1,883	19	1,369	466	112	54	268	455	46	15	.....
6	.....	.....	35	35	.....	26	.....	18	.....	.....	9	.....	.....	.....
80	.....	.....	30	30	.....	.....	14	7	.....	.....	2	.....	.....	.....
36	.....	.....	146	143	3	84	50	6	44	.....	13	.....	.....	.....
314	4	.....	2,815	2,287	28	1,987	298	380	39	.....	177	41	51	.....
914	34	23	2,091	2,075	16	1,819	198	824	343	.....	160	8	40	.....
579	5	.....	1,788	1,701	87	1,121	142	545	.....	.....	153	.....	46	.....
158	.....	13	434	422	12	273	104	86	16	14	31	.....	.....	.....
36	.....	.....	146	143	3	84	50	6	44	.....	13	.....	.....	.....
314	4	.....	2,815	2,287	28	1,987	298	380	39	.....	177	41	51	.....
914	34	23	2,091	2,075	16	1,819	198	824	343	.....	160	8	40	.....
579	5	.....	1,788	1,701	87	1,121	142	545	.....	.....	153	.....	46	.....
158	.....	13	434	422	12	273	104	86	16	14	31	.....	.....	.....
160	2	1	806	791	15	486	140	199	.....	.....	57	1	.....	.....
606	31	17	4,011	3,936	75	1,793	2,058	241	.....	218	181	29	85	.....
153	22	.....	701	682	19	480	211	34	12	12	37	2	5	.....
1,055	48	13	2,951	2,907	44	1,795	957	871	3	166	214	14	29	.....
73	.....	.....	200	190	10	187	13	56	.....	.....	15	2	2	.....
228	12	15	1,175	1,173	2	865	253	333	4	2	151	.....	.....	.....
316	6	4	783	764	19	437	122	71	96	.....	69	.....	6	.....
3	.....	.....	55	55	.....	40	15	22	.....	.....	.....	.....	.....	.....
325	16	4	595	595	.....	323	190	204	.....	84	114	3	7	.....
265	.....	.....	812	812	.....	615	130	85	6	37	68	5	.....	.....
2,186	6	3	3,302	3,220	82	2,426	656	774	23	24	429	12	22	.....
2,083	11	5	4,302	4,356	46	2,943	329	1,853	49	60	516	29	35	.....
1,488	43	.....	4,284	4,078	206	2,904	1,212	819	57	.....	451	26	270	.....
166	.....	.....	962	953	9	342	418	134	.....	52	75	2	6	.....
124	.....	.....	443	440	3	377	30	18	65	.....	26	2	.....	.....
627	5	.....	2,762	2,694	68	1,487	1,230	281	.....	131	130	38	5	.....
144	8	6	919	908	11	554	365	44	29	.....	34	.....	.....	.....
17	.....	.....	16	16	.....	10	6	.....	.....	.....	.....	.....	.....	.....
85	.....	.....	154	154	.....	75	42	28	.....	.....	11	3	20	.....
481	4	3	820	817	3	729	91	489	6	14	95	2	7	.....

TABLE LXX.—QUARRIES—Statistics of the quarrying industries of the United States, showing number of quarries and production, by kinds of rock and by states and territories: 1880.

States and Territories.	Number of quarries.	Capital invested.	Product in census year.	Value of product in census year.
Total United States	1,525	Dollars. 25,414,497	Cubic feet. 115,380,133	Dollars. 18,856,055
MARBLE AND LIMESTONE (a)	616	10,565,497	65,523,965	6,856,681
Illinois	38	2,101,200	13,013,139	1,320,742
Indiana.....	65	539,660	3,102,115	593,375
Iowa	128	552,775	10,772,233	666,554
Kansas	17	59,700	1,340,346	131,570
Kentucky	19	143,250	1,724,675	92,216
Maryland.....	3	142,435	70,617	65,929
Massachusetts.....	4	284,500	99,425	230,495
Michigan	4	61,050	97,800	26,085
Minnesota	33	159,575	2,316,298	201,593
Missouri.....	27	242,350	4,419,300	431,211
Nebraska.....	1	5,000	330,000	15,000
New York.....	55	508,620	2,336,025	431,439
Ohio.....	119	372,102	11,098,583	669,723
Pennsylvania (a).....	24	592,160	3,339,722	240,934
Tennessee.....	13	131,700	792,621	192,695
Vermont	18	3,886,000	1,192,100	1,340,050
Virginia.....	2	35,000	20,000	27,750
Wisconsin.....	46	243,420	3,458,916	189,320
SANDSTONE	502	6,229,600	24,776,930	4,730,391
Colorado.....	3	2,000	108,750	9,000
Connecticut	6	1,167,500	988,200	680,200
Dakota	1	3,500	38,400	12,000
Illinois	5	18,800	308,060	21,830
Indiana.....	5	73,900	311,712	40,400
Iowa	3	4,000	157,500	4,200
Kansas	2	14,000	66,000	11,000
Massachusetts.....	15	95,800	729,980	144,294
Michigan	5	13,650	550,260	53,080
Minnesota.....	5	113,600	324,000	41,150
Missouri.....	5	51,200	194,000	81,960
New Jersey.....	20	210,100	2,384,791	400,420
New York.....	181	510,775	2,980,353	724,556
Ohio.....	126	3,294,700	8,574,726	1,871,924
Pennsylvania.....	95	560,825	6,229,110	627,943
Washington	1	1,500	14,000	2,000
West Virginia.....	10	55,350	294,700	16,689
Wisconsin.....	14	38,400	522,338	37,745

a With "Marble and limestone" is included one quarry of serpentine rocks.

TABLE LXX.—QUARRIES—*Statistics of the quarrying industries of the United States, &c.—Continued.*

States and Territories.	Number of quarries.	Capital invested.	Product in census year.	Value of product in census year.
CRYSTALLINE SILICIOUS ROCKS.....	313	<i>Dollars.</i> 5, 291, 250	<i>Cubic feet.</i> 20, 506, 568	<i>Dollars.</i> 5, 188, 998
California.....	2	100, 000	413, 000	172, 450
Colorado.....	3	11, 500	554, 040	41, 400
Connecticut.....	32	563, 060	2, 539, 200	407, 225
Delaware.....	3	4, 800	45, 900	12, 600
Georgia.....	2	60, 000	278, 960	64, 480
Maine.....	68	1, 625, 500	2, 203, 670	1, 175, 286.
Maryland.....	7	106, 000	1, 182, 500	224, 000
Massachusetts.....	92	1, 217, 150	4, 623, 125	1, 329, 315
Minnesota.....	3	11, 050	28, 815	13, 075
Missouri.....	2	35, 000	86, 300	110, 000
New Hampshire.....	39	123, 800	1, 020, 340	303, 066
New Jersey.....	2	10, 500	820, 000	99, 000
New York.....	3	16, 000	42, 400	10, 000
Pennsylvania.....	15	243, 500	3, 028, 222	211, 454
Rhode Island.....	17	476, 000	1, 352, 000	623, 000
Vermont.....	12	50, 140	187, 140	59, 675
Virginia.....	10	631, 250	1, 181, 556	331, 928
Washington.....	1	1, 000	18, 500	1, 044
SLATE.....	94	3, 328, 150	<i>Squares.</i> 457, 287	1, 529, 985
Georgia.....	1	600	1, 000	4, 500
Maine.....	6	660, 000	26, 200	83, 800
Maryland.....	7	59, 500	12, 280	56, 700
Massachusetts.....	2	19, 400	1, 550	7, 000
New Jersey.....	3	11, 300	4, 683	15, 000
New York.....	12	45, 050	19, 850	95, 500
Pennsylvania.....	30	1, 681, 400	271, 313	863, 877
Vermont.....	31	795, 900	103, 331	352, 608
Virginia.....	2	55, 000	11, 500	51, 000

PETROLEUM PRODUCTION.

The actual production of petroleum in the United States cannot be accurately given for any definite period of time, but an approximate estimate has been made up from all available sources of information, which is believed to be practically correct.

The receipts of the incorporated pipe-lines have been reported in accordance with the requirements of a law of the state of Pennsylvania, and estimates of the oil handled by private lines and "dump oil" have been received from well-informed and reliable parties. The estimation of the amount of oil held in tanks at wells, while presenting many difficulties, has been made with great care and based on actual returns of stocks from a large proportion of the wells. The amount estimated as run to waste is based on actual returns, and the amount burned from current reports at the time the fires occurred. From these several sources of information the production of oil out of the ground during the census year is estimated as follows:

Third sand oil.

	Barrels.
1. Pipe-line receipts	22, 628, 286
2. Gain in well stocks	327, 852
3. Oil run to waste	275, 000
4. Oil burned outside of well stocks and pipe-lines	60, 000
5. "Dump oil" and oil run in private lines	578, 670
	23, 869, 808

This oil was produced in—

	Barrels.
Northwestern Pennsylvania	23, 722, 989
Greene county, Pennsylvania	3, 118
West Virginia and Washington county, Ohio	138, 325
Glasgow, Kentucky	5, 376
	23, 869, 808

Second sand oil.

The second sand oil is produced near Franklin, Pennsylvania, and embraces also the B, C, D, and E grades of West Virginia oils. Of this oil there were produced in—

	Barrels.
West Virginia	68, 392. 88
Near Franklin, Pennsylvania	105, 600. 00
Grafton, Ohio	2, 773. 00
	176, 765. 88

First sand oil.

Four-fifths of the first sand oil comes from the first "Oil Sand" of the Venango group, near Franklin, Pennsylvania. The oils of this class were produced in—

	Barrels.
Franklin, Pennsylvania	86,857
West Virginia (F and G grades).....	12,536
Grafton, Ohio.....	1,386
Mecca, Ohio	900
Erie, Pennsylvania.....	25
	<hr/>
	101,704
	<hr/> <hr/>

The production of the peculiar amber oil in Beaver county, Pennsylvania, known as "Smith's Ferry oil", has been placed by competent persons at 86,803 barrels.

The following is a summary of these amounts:

	Barrels.
First sand oil	101,704
Second sand oil	176,766
Third sand oil	23,869,808
Beaver county, Pennsylvania.....	86,803
	<hr/>
	24,235,081
	<hr/> <hr/>

The following is a summary of the total production of the different localities:

	Barrels.
Northwestern Pennsylvania.....	23,915,446
West Virginia and Washington county, Ohio.....	219,254
Beaver county, Pennsylvania.....	86,803
Glasgow, Kentucky	5,376
Grafton, Ohio.....	4,159
Greene county, Pennsylvania	3,118
Mecca, Ohio	900
Erie, Pennsylvania.....	25
	<hr/>
	24,235,081
	<hr/> <hr/>

For some time antecedent to the census year, and during that year, the production of petroleum, and especially of third sand oil, had been in excess of any demand for it on the market, and consequently there had been a gradual accumulation of stocks in excess of the amount required in handling the oil. This accumulation did not take place proportionally in all the districts producing petroleum, but was confined mainly to the Bradford district of northwestern Pennsylvania. In the Grafton and Mecca districts of Ohio and in the Glasgow (Kentucky) district the stock of oil in tanks at wells would not at any time exceed 150 barrels. The constant demand for the entire production of the Smith's Ferry district, including Slippery Rock creek, in Beaver county, Pennsylvania, prevents any accumulation of stocks, and, in consequence, the well stocks there are always low. These stocks, together with that in the hands of the Smith's Ferry Transportation Company, have been estimated at 3,200 barrels on June 1, 1879. On May 31, 1880, the same stocks were estimated at 3,000 barrels. In West Virginia and Washington county, Ohio, the well and tank stocks, together with the stock held by the West Virginia Transportation Company, on June 1, 1879,

were 79,606 barrels. The same stocks on May 31, 1880, were estimated at 50,848 barrels. In Greene county, Pennsylvania, the stocks were practically nothing. In the heavy-oil district near Franklin, Pennsylvania, the heavy oil accumulated during the census year. The stock of Franklin oil at the beginning of the census year was, allowing an estimated well stock of 3,000 barrels, 19,898 barrels, and at the end of the census year, 27,106 barrels. In northwestern Pennsylvania, exclusive of the Franklin district, the net stocks in the custody of the pipe-lines, June 1, 1879, and May 31, 1880, are represented in the following table:

	June 1, 1879. Barrels.	May 31, 1880. Barrels.
United pipe-lines	5, 864, 850	9, 851, 885
Tidewater Pipe Company	378, 312	1, 009, 063
Tidioute and Titusville	189, 767	270, 718
Pennsylvania Transportation Company	9, 855	3, 271
Church Run	1, 751	.....
Octave	11, 642	14, 558
Cherry Tree	4, 602	.....
Tidioute and Warren	11, 198	15, 129
Fox farm	29, 954	19, 631
Charley and Shaefer Run	23, 211	26, 024
Emlenton	13, 215	15, 022
	<u>6, 538, 357</u>	<u>11, 225, 301</u>

It is estimated, from the best data to be obtained, that the stocks in tanks outside the pipe-lines, in the territory above and below Oil City, was, on

	Barrels.
June 1, 1879	293, 474
May 31, 1880	532, 318

The well stocks in the Lower Country remained practically unchanged throughout the year, actual returns from a large number of these wells giving an average of 32 barrels per well. This average, applied to 6,300 wells, gives a total well stock of 201,600 barrels.

The estimates of well stocks in the Bradford district, based upon actual returns and other reliable data, show that at the beginning of the census year, June 1, 1879, the total well stocks were 812,067 barrels. These stocks gradually accumulated, until on September 1, 1879, they amounted to 1,024,727 barrels. From this date until February 1, 1880, the well stocks steadily declined until they reached, at that date, 693,084 barrels. From February 1 until the close of the census year, May 31, 1880, these stocks steadily increased until upon that date they amounted to 1,258,902 barrels. These figures show a net increase of stocks during the census year of 446,835 barrels.

Summarized, the stocks of crude oil in the producing regions on June 1, 1879, may be exhibited as follows:

	Barrels.
Pipe-line stocks, third sand	6, 538, 357
Well stocks, Bradford district	812, 067
Well stocks, Lower Country	201, 600
Iron-tank stocks, outside of pipe-lines	293, 474
Franklin stocks, heavy oil	19, 898
Smith's Ferry	3, 200
West Virginia and southern Ohio	79, 606
Grafton and Mecca, Ohio, and Glasgow, Kentucky	150
	<u>7, 948, 352</u>

TABLE LXXI.—PETROLEUM—*Statistics of the investment of capital, &c.—Continued.*

Name of district.	Cost of torpedoes.	Cost of labor.	Total cost of wells.	Estimated number of skilled workmen.	Average rate of wages.	Estimated number of ordinary laborers.	Average rate of wages.
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>		<i>Dollars.</i>		<i>Dollars.</i>
Bradford, Pennsylvania	925, 300	2, 188, 000	3, 280, 160	1, 851	2 50—4 00	3, 617	1 50—2 00
Lower Country, Pennsylvania		253, 000	630, 947	208	2 50—4 00	4, 680	1 50—2 00
Franklin, Pennsylvania			48, 000	15	2 50—4 00	153	1 50—2 00
Beaver county, Pennsylvania			10, 500	12	2 50—4 00	63	1 50—2 00
Grafton, Ohio							
Mecca, Ohio			800				
West Virginia and southern Ohio		51, 000	120, 000	25	2 00—2 50	263	1 00—1 50
Glasgow, Kentucky							

Name of district.	Estimated number of wood-choppers.	Rate paid per cord.	Total number of men employed.	Total amount of wages paid.	Estimated number of men employed in drilling wells.	Estimated number of men employed in casing for wells.	Estimated amount of feet of lumber used in rigs.	Estimated amount of cords of fuel used in drilling wells.	Total production in barrels.
		<i>Dolls.</i>		<i>Dollars.</i>					
Bradford, Pennsylvania	500	0 90	5, 968	4, 212, 120	3, 060	2, 000	59, 772, 000	302, 400	23, 823, 580
Lower Country, Pennsylvania	50		4, 944	3, 012, 300	350	4, 500	5, 685, 000	33, 500	86, 857
Franklin, Pennsylvania			170	102, 000	50	120	600, 000		86, 803
Beaver county, Pennsylvania			75	45, 000	10	60	225, 000		4, 159
Grafton, Ohio			10	6, 000		10			
Mecca, Ohio			15	7, 500		15			900
West Virginia and southern Ohio			288	173, 160	25	250	1, 440, 000		219, 254
Glasgow, Kentucky			7	2, 910					5, 376
Greene county, Pennsylvania									3, 118
Erie, Pennsylvania									25

Cost of raising oil: Flowing wells in the Bradford district, 6 to 8 cents per barrel; pumping wells in the lower country, 60 to 80 cents; pumping wells in Franklin district, \$3 per barrel.

TABLE LXXII.—*Statistics of petroleum refining: 1880.*

ESTABLISHMENTS:	
Number of firms and corporations	86
CAPITAL:	
Amount of capital invested	\$27, 325, 746
HANDS EMPLOYED:	
Average number of men	9, 498
Average number of women	25
Average number of children	346
Total	9, 869

TABLE LXXII.—PETROLEUM—*Statistics of petroleum refining: 1880—Continued.*

WAGES:
 Total amount paid \$4,381,572

MATERIALS:

Oils.

	Quantities.	Value.
Crude oil used (a)	gallons.. 731,533,127	\$16,340,581

Fuel.

Anthracite coal	tons.. 179,997	446,922
Bituminous coal	do.. 504,667	580,983
Wood	cords.. 1,471	6,355
Coke	bushels.. 303,596	13,213
Naphtha	gallons.. 2,892,164	42,315
Residuum	do.. 11,765,705	229,215

Chemicals.

Sulphur	tons.. 3.0	180
Sulphuric acid	do.. 45,813.5	1,206,052
Hydrochloric acid	pounds.. 3,424.0	68
Soda-ash	tons.. 410.9	10,427
Caustic soda	do.. 772.3	85,064
Sal-soda	pounds.. 96,643.0	1,423
Aqua ammonia	do.. 160,160.0	8,697
Lime	bushels.. 797.0	159
Bone-black	tons.. 1,990.0	62,815

Packages.

Barrels	number.. 9,717,306	11,618,307
Tin cans	do.. 23,841,089	2,793,997
Cases	do.. 6,452,801	906,911
Bungs, paint, glue, etc		645,412

Total value of raw material 34,999,101

PRODUCTS:

Rhigoline	barrels.. 5,868	\$29,117
Gasoline	do.. 259,555	1,128,166
Naphtha	do.. 1,212,626	1,833,395
Illuminating oil	do.. 11,002,249	36,839,613
Mineral sperm	do.. 16,544	202,725
Reduced petroleum for cylinders	do.. 26,018	371,020
Reduced petroleum for journals	do.. 204,841	1,024,017
Deodorized lubricating oils	do.. 70,415	611,572
Paraffine oil	do.. 79,465	408,023
Residuum	do.. 229,133	297,529
Paraffine wax	pounds.. 7,859,626	631,944
Petroleum ointment, harness oil, etc		328,097

Total value of manufactured products 43,705,218

MISCELLANEOUS STATISTICS:

Boilers in use	374
Horse-power of same	12,741
Engines in use	385
Pumps in use	200
Number of buildings	866
Value of same	\$1,899,288
Value of machinery	\$3,737,998
Loss during the census year from fire and other accidents	\$104,631

* The 731,533,127 gallons of crude oil used are equal to 17,417,455 barrels of 42 gallons each.

RAILROADS, STEAM CRAFT, CANALS, TELEGRAPHS,
AND TELEPHONES.

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RAILROADS.

Composition of the geographical groups.

Group I.—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

Group II.—New York, Pennsylvania, Ohio, Michigan, Indiana, Maryland, Delaware, New Jersey, and District of Columbia.

Group III.—Virginia, West Virginia, Kentucky, Tennessee, Mississippi, Alabama, Georgia, Florida, North Carolina, and South Carolina.

Group IV.—Illinois, Iowa, Wisconsin, Missouri, and Minnesota.

Group V.—Louisiana, Arkansas, and Indian Territory.

Group VI.—Dakota, Nebraska, Kansas, Texas, New Mexico, Colorado, Wyoming, Montana, Idaho, Utah, Arizona, California, Nevada, Oregon, and Washington Territory.

TABLE LXXIII.—*Physical characteristics—Miles of railroad up to June 30, 1880.*

[NOTE.—Miles under construction are included in miles projected.]

Geographical groups.	ESTABLISHED AND OPERATED ROADS.					NEW ROADS.		
	Road completed.		Extensions.			Projected.		Under construction.
	Compa- nies.	Miles.	Projected.		Under construc- tion.	Compa- nies.	Miles.	Miles.
			Compa- nies.	Miles.	Miles.			
The United States.	1, 146	87, 891	170	19, 722	5, 155	336	21, 307	4, 861
Group I.	149	5, 948	12	319	106	9	289	163
Group II.	524	23, 401	59	3, 156	858	198	8, 910	1, 790
Group III.	153	14, 592	34	2, 486	876	37	2, 869	937
Group IV.	178	23, 134	25	2, 754	871	48	3, 432	797
Group V.	13	921	6	245	112	7	1, 371	514
Group VI.	129	14, 895	34	10, 762	2, 332	37	4, 436	660
Geographical groups.	AGGREGATE.					Total miles completed and projected.	Total miles completed and under construc- tion.	
	Roads completed, extensions, and new lines.							
	Compa- nies.	Miles com- pleted.	Projected miles.	Miles under construction.				
The United States.	1, 482	87, 891	41, 029	10, 016	128, 920	97, 907		
Group I.	158	5, 948	608	269	6, 556	6, 217		
Group II.	722	23, 401	12, 066	2, 648	40, 467	31, 049		
Group III.	190	14, 592	5, 355	1, 813	19, 947	16, 405		
Group IV.	226	23, 134	6, 186	1, 668	29, 320	24, 802		
Group V.	29	921	1, 616	626	2, 537	1, 547		
Group VI.	166	14, 895	15, 198	2, 992	30, 093	17, 887		

TABLE LXXIV.—RAILROADS—Average (cost, value, and amounts), per mile of road completed and operated, of assets and liabilities; earnings, income, expenses, profit, dividends, and balance retained.

Item.	Amount.	Average per mile of road completed and operated.
	<i>Dollars.</i>	<i>Dollars.</i>
Cost of construction of roads.....	a 4, 112, 387, 176	b 47, 387
Cost of equipment.....	418, 045, 458	4, 817
Value of lands owned (including buildings).....	103, 319, 845	1, 191
Value of telegraph lines and miscellaneous.....	204, 913, 196	2, 361
Stock and bonds owned (issued by other companies).....	342, 806, 132	3, 982
Total permanent investments.....	5, 182, 445, 807	59, 718
Cash assets.....	353, 973, 981	4, 079
Profit and loss to credit.....	110, 697, 228	1, 275
Total permanent and cash assets.....	5, 536, 419, 785	63, 797
Capital stock paid in.....	2, 613, 606, 264	30, 117
Funded debt.....	2, 390, 915, 402	27, 551
Total stock and funded debt.....	5, 004, 521, 666	57, 668
Unfunded debt.....	421, 200, 894	4, 854
Total capital paid in and borrowed.....	5, 425, 722, 560	62, 522
Gross transportation earnings.....	580, 450, 594	6, 680
Total income (all sources).....	681, 295, 391	7, 620
Transportation expenses.....	352, 800, 120	4, 065
Total expenditures (all classes).....	544, 950, 795	6, 245
Net transportation earnings.....	227, 650, 474	2, 623
Net income or profit.....	110, 344, 596	1, 275
Dividends declared.....	70, 550, 342	813
Amount retained.....	48, 794, 254	562

a This amount includes funds expended upon partly completed miles of road under construction. It was impossible to obtain from railroad companies the respective amounts paid out for an exact number of miles entirely completed.

b Average taken upon 86,782 miles of road operated by the companies reporting transportation earnings.

TABLE LXXV.—Aggregate income.

Item.	Amount.	Total.	Aggregate.
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
Gross transportation earnings.....		580, 450, 594	
Income from all other sources—rents.....	53, 543, 710		
Income from all other sources—interest and dividends.....	27, 301, 087		
		80, 844, 797	
Less—			661, 295, 394
Transportation expenses.....	352, 800, 120		
General expenses of lessor companies.....	1, 879, 848		
Interest on funded debt.....	126, 442, 310		
Interest on unfunded debt.....	9, 037, 798		
Rentals.....	51, 790, 719		
		541, 950, 795	
Deduct expenses over earnings.....	1, 427, 581		
Deduct expenses over other income.....	13, 286, 921		
		14, 714, 502	
			527, 236, 293
Net income or profit reported by companies having no deficits.....			134, 059, 098
Dividends declared—			
On preferred stock.....	6, 893, 263		
On common stock.....	63, 657, 079		
		70, 550, 342	
Deduct dividends declared by companies having no net income.....		529, 974	
			70, 020, 368
Balance retained.....			a 64, 038, 790

a Against this balance stand the deficits of other companies, \$15,244,476.

TABLE LXXVI.—RAILROADS—Income by groups.

Groups.	Income.	Expenditures.	Net income applicable to dividends.	Dividends declared.	Surplus.	Deficits.
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
Total	661, 295, 391	541, 950, 795	a 134, 059, 098	b 70, 550, 342	64, 038, 730	15, 244, 476
Group I.....	51, 545, 127	41, 828, 020	10, 631, 175	7, 946, 197	2, 689, 571	919, 560
Group II.....	338, 726, 090	276, 324, 211	65, 169, 787	37, 070, 429	28, 316, 187	7, 984, 738
Group III.....	53, 211, 561	46, 774, 219	8, 526, 410	3, 510, 426	5, 241, 511	2, 914, 595
Group IV.....	137, 081, 135	109, 217, 207	30, 036, 982	15, 105, 365	14, 973, 371	2, 219, 808
Group V.....	4, 529, 896	3, 838, 783	792, 706	.....	763, 706	71, 592
Group VI.....	81, 201, 582	63, 967, 453	18, 932, 032	6, 917, 923	12, 950, 384	1, 734, 183

a This amount is reported by companies having earned a profit, the difference of \$14,714,502 between such profit and the amount obtained by deducting expenditures from income being created by the deficits made by companies whose expenses were more than their earnings.
 b This amount includes \$529,974 of dividends declared by companies having no net income whatever.

TABLE LXXVII.—Aggregate assets and liabilities.

BALANCE SHEET.

ASSETS.			LIABILITIES.			
Item.	Amount.	Total.	Item.	Amount.	Total.	
	<i>Dollars.</i>	<i>Dollars.</i>		<i>Dollars.</i>	<i>Dollars.</i>	
Construction of roads.....	4, 112, 307, 176	5, 182, 445, 807	Capital stock paid in—preferred.....	304, 471, 942	2, 613, 606, 264	
Equipment.....	418, 045, 458		Capital stock paid in—common.....	2, 309, 134, 322		
Lands.....	103, 319, 845		Funded debt.....	.....		2, 390, 915, 402
Stock (of other companies).....	184, 806, 527		Unfunded debt—	.....		.....
Bonds (of other companies).....	158, 933, 605		Interest unpaid.....	68, 750, 238		.....
Telegraph lines and miscellaneous.....	204, 913, 190		Dividends unpaid.....	13, 059, 983		.....
Total permanent investments.....	.....		Notes payable.....	85, 573, 270		.....
Cash.....	61, 211, 513		Vouchers and accounts.....	253, 817, 353		.....
Bills receivable.....	31, 064, 428		.....	.....		421, 200, 894
Due from agents and companies.....	79, 814, 155		.....	.....		.....
Materials and supplies.....	44, 294, 901	.....	.....	.....
Sinking fund.....	20, 488, 759	.....	.....	.....
Debit balances.....	117, 100, 225	.....	.....	.....
Total cash and other assets.....	.....	353, 973, 981	Profit and loss (reported by others).....	.....	233, 191, 598	
Profit and loss (reported by some companies).....	.....	122, 494, 370	Total liabilities.....	.....	5, 658, 914, 158	
Total assets.....	.....	5, 658, 914, 158	.....	.....	.....

BALANCE SHEET, BY GROUPS.

ASSETS.

Groups.	Permanent investments.	Cash.	Other assets.	Profit and loss.	Total.
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
Total.....	5, 182, 445, 807	61, 211, 513	292, 762, 468	122, 494, 370	5, 658, 914, 158
Group I.....	324, 315, 717	4, 932, 389	14, 363, 038	12, 971, 056	356, 582, 200
Group II.....	2, 325, 194, 656	31, 553, 373	142, 042, 650	57, 638, 961	2, 556, 428, 640
Group III.....	514, 011, 105	5, 307, 646	15, 345, 337	20, 202, 961	554, 867, 049
Group IV.....	1, 069, 913, 805	10, 956, 396	61, 704, 649	8, 946, 971	1, 151, 551, 821
Group V.....	52, 997, 871	1, 634, 682	2, 560, 568	336, 820	57, 529, 921
Group VI.....	896, 012, 653	6, 793, 047	56, 746, 226	22, 397, 601	981, 954, 527

TABLE LXXVII.—RAILROADS—*Aggregate assets and liabilities*—Continued

BALANCE SHEET, BY GROUPS—Continued.

LIABILITIES.

Groups.	Stock (pre-ferred and com-mon).	Funded debt.	Unfunded debt.	Profit and loss.	Total.
Total.....	<i>Dollars.</i> 2, 613, 606, 264	<i>Dollars.</i> 2, 390, 915, 402	<i>Dollars.</i> 421, 200, 894	<i>Dollars.</i> 233, 191, 598	<i>Dollars.</i> 5, 658, 914, 158
Group I.....	191, 619, 196	110, 406, 207	34, 075, 709	19, 581, 082	356, 582, 200
Group II.....	1, 162, 195, 421	1, 109, 234, 485	171, 928, 177	113, 070, 557	2, 556, 428, 640
Group III.....	227, 506, 339	240, 174, 976	68, 377, 681	18, 808, 008	554, 867, 040
Group IV.....	560, 848, 636	491, 632, 564	60, 460, 303	38, 610, 318	1, 151, 551, 821
Group V.....	37, 073, 912	17, 752, 448	2, 334, 521	364, 040	57, 529, 921
Group VI.....	464, 357, 710	421, 714, 722	83, 124, 503	42, 757, 592	981, 934, 527

TABLE LXXVIII.—*Aggregate transportation earnings.*

Item.	Amount.		Total.	
	<i>Dollars.</i>	<i>Per cent.</i>	<i>Dollars.</i>	<i>Per cent.</i>
Local passengers.....	93, 321, 940	68. 23		
Through passengers.....	44, 514, 393	30. 89		
All other passengers.....	1, 265, 976	0. 88		
Total.....		100. 00	144, 101, 709	24. 83
Express.....			8, 828, 259	1. 52
Mails.....			10, 472, 813	1. 80
Local freight.....	233, 688, 202	56. 16		
Through freight.....	176, 909, 131	42. 51		
All other freight.....	5, 548, 425	1. 33		
Total.....		100. 00	416, 145, 753	71. 69
Earnings not analyzed.....			902, 055	0. 16
Aggregate.....			580, 450, 594	100. 00

TABLE LXXIX.—*Aggregate transportation expenses.*

Item.	Amount.	Per cent.	Per cent. of earnings.
Repairs of road-bed and track.....	<i>Dollars.</i> 39, 603, 076	11. 23	6. 82
Renewals of rails.....	17, 243, 950	4. 89	2. 97
Renewals of ties.....	10, 741, 577	3. 04	1. 85
Repairs of bridges.....	9, 009, 097	2. 55	1. 55
Repairs of buildings.....	7, 644, 121	2. 17	1. 32
Repairs of fences, crossings, etc.....	1, 480, 926	0. 42	0. 25
Telegraph expenses.....	3, 576, 477	1. 01	0. 62
Taxes.....	13, 283, 819	3. 77	2. 29
Total maintaining road and real estate.....	102, 583, 043	29. 08	17. 67
Repairs of locomotives.....	21, 330, 963	6. 19	3. 76
Repairs of passenger, baggage, and mail cars.....	10, 558, 824	2. 99	1. 82
Repairs of freight cars.....	22, 595, 553	6. 40	3. 89
Total repairs of rolling stock.....	54, 985, 340	15. 58	9. 47
Passenger-train service.....	10, 046, 080	2. 85	1. 73
Passenger-train supplies.....	1, 143, 810	0. 33	0. 20
Passenger-car mileage.....	807, 525	0. 23	0. 14
Freight-train service.....	19, 892, 843	5. 64	3. 43
Freight-train supplies.....	1, 260, 965	0. 36	0. 22
Freight-car mileage.....	7, 781, 828	2. 21	1. 74
Fuel for locomotives.....	32, 836, 470	9. 31	5. 66
Water supply.....	2, 368, 867	0. 68	0. 41
Oil and waste.....	3, 754, 670	1. 06	0. 65
Locomotive service.....	27, 239, 568	7. 72	4. 09
Agents and station service.....	36, 767, 299	10. 42	6. 35
Station supplies.....	2, 871, 933	0. 81	0. 49
Salaries of officers and clerks.....	12, 215, 850	3. 46	2. 10

TABLE LXXIX.—RAILROADS—Aggregate transportation expenses—Continued.

Item.	Amount.	Per cent.	Per cent. of earnings.
	<i>Dollars.</i>		
Legal expenses.....	2,457,905	0.70	0.42
Insurance.....	926,634	0.26	0.16
Stationery and printing.....	2,692,011	0.76	0.47
Outside agencies and advertising.....	4,737,311	1.34	0.82
Contingencies and miscellaneous.....	21,328,326	6.01	3.67
Loss and damage, freight.....	974,526	0.28	0.17
Loss and damage, property and cattle.....	1,102,761	0.31	0.19
Loss and damage, personal injuries.....	1,377,978	0.39	0.24
Expenses not analyzed.....	621,077	0.18	0.11
Total operating and other expenses.....	195,231,737	53.34	33.64
Aggregate transportation expenses.....	352,800,120	100.00	60.78
Net earnings.....	229,078,055		
Less expenses over earnings by some companies.....	1,427,581		
Total.....	227,650,474		33.22

TABLE LXXX.—Results of traffic operations by groups.

[NOTE.—The miles herein given are those operated by the companies holding charters from the respective states composing the groups and do not all lie in the group to which such companies are credited.] (See physical characteristics, Table LXXIII.)

Groups.	Number of companies operating.	Miles of road operated.	EARNINGS.				
			Passengers (local and through).	Express.	Mails.	Freight (local and through).	Total.
Total.....	632	86,782	<i>Dollars.</i> 144,101,769	<i>Dollars.</i> 8,828,259	<i>Dollars.</i> 19,472,313	<i>Dollars.</i> 416,145,753	<i>Dollars.</i> a 580,450,594
Group I.....	76	5,887	19,497,908	1,115,864	780,237	25,548,331	46,042,430
Group II.....	259	27,693	67,319,822	3,892,061	4,030,913	207,930,125	283,172,921
Group III.....	113	14,243	11,577,384	768,379	1,327,131	35,499,536	40,172,430
Group IV.....	101	25,037	27,338,124	1,881,921	2,479,241	94,725,530	126,424,816
Group V.....	12	877	801,364	19,010	102,161	3,561,043	4,183,578
Group VI.....	71	13,045	17,567,017	1,151,024	1,753,130	49,181,193	69,632,364

Groups.	EXPENSES.				Net earnings.	Expenses over earnings.
	Maintaining road and real estate.	Repairs of rolling stock.	Operating and general.	Total.		
Total.....	<i>Dollars.</i> 162,533,043	<i>Dollars.</i> 54,983,340	<i>Dollars.</i> 194,610,660	<i>Dollars.</i> b 352,800,120	<i>Dollars.</i> c 229,078,055	<i>Dollars.</i> 1,427,581
Group I.....	9,447,693	4,848,548	17,885,090	32,181,931	14,786,277	25,778
Group II.....	45,232,311	30,298,714	10,010,649	175,541,671	108,452,939	821,680
Group III.....	10,838,173	5,003,907	16,423,854	32,266,094	16,973,340	66,944
Group IV.....	23,822,798	10,138,337	38,630,957	72,592,092	54,140,962	308,238
Group V.....	912,263	106,027	2,072,599	3,030,885	1,058,230	5,537
Group VI.....	12,329,800	4,589,897	19,550,823	36,506,430	33,345,338	199,404

a This amount includes \$902,055 of earnings which were not specified by the companies reporting same.

b This amount includes \$621,077 of expenses which were not specified by the companies reporting same.

c This amount includes \$280,978 of net earnings which were not specified by the companies reporting same.

Disposition of net earnings.

Net earnings.....	\$229, 078, 055	
Less expenses over earnings	1, 427, 581	
Net earnings of whole system.....		\$227, 650, 474
Paid:		
Fixed charges, less income from other sources than earnings	187, 270, 827	
	80, 844, 797	
General expenses of lessor companies		106, 426, 030
		1, 879, 848
Dividends declared.....		108, 305, 878
		70, 550, 342
Total expended		178, 656, 220
Balance held, whole system		48, 794, 254
		227, 650, 474
Actual balance reported by some companies as surplus		64, 038, 730
Deficits reported by others		15, 244, 476
Net balance for system		48, 794, 254

PROFITS EARNED UPON CAPITAL STOCK (PAID IN).

Tables LXXXI and LXXXII, following, exhibit the amount of capital stock (preferred and common combined) paid in of those companies which have reported a net income available for dividends after having paid the interest upon their funded and other debts; also the per cent. of such net income or profit upon the respective amount of stock.

Tables LXXXIII and LXXXIV give the necessary explanations as regards the stock and net income referred to.

TABLE LXXXI.—RAILROADS—Per cent. of profit upon capital stock (paid in) of companies which report net income available to the payments of dividends.

Per cent. of profit.	Group I.		Group II.		Group III.		Group IV.	
	Number of companies.	Amount of stock.						
		<i>Dollars.</i>		<i>Dollars.</i>		<i>Dollars.</i>		<i>Dollars.</i>
Up to 1.....	7	6, 561, 492	35	120, 321, 476	19	29, 767, 109	14	68, 406, 086
1 to 2.....	7	22, 779, 476	19	87, 797, 771	11	19, 107, 915	21	78, 106, 080
2 to 3.....	13	15, 637, 782	18	93, 667, 049	7	35, 231, 900	7	16, 905, 443
3 to 4.....	11	13, 208, 193	21	19, 219, 350	3	7, 567, 500	8	15, 934, 841
4 to 5.....	11	10, 086, 225	4	3, 629, 112	4	9, 638, 605	4	3, 254, 300
5 to 6.....	9	5, 685, 000	19	33, 673, 065	6	10, 342, 262	3	8, 182, 600
6 to 7.....	14	15, 895, 300	37	91, 740, 832	7	16, 451, 857	3	13, 370, 000
7 to 8.....	9	10, 703, 966	26	74, 236, 917	9	15, 081, 797	9	24, 088, 460
8 to 9.....	5	7, 300, 000	20	79, 273, 344	3	8, 954, 103	5	58, 374, 730
9 to 10.....	6	33, 280, 775	6	31, 757, 263	6	3, 918, 818		
10 to 15.....	9	28, 018, 980	38	276, 429, 392	7	15, 190, 911	11	112, 551, 656
15 to 20.....			6	22, 662, 460	4	3, 012, 073	3	22, 908, 060
20 and upward.....			13	4, 336, 115	6	3, 301, 203	4	240, 060
Aggregate	101	169, 087, 791	262	938, 144, 147	92	172, 616, 053	92	422, 322, 116
Total net income available to dividends upon stock of companies herein included.		\$10, 410, 097		\$64, 966, 211		\$8, 356, 418		\$29, 645, 636
Average per cent. profit.		6.16		6.92		4.84		7.02
Net income of companies having no stock.		\$221, 078		\$203, 576		\$160, 998		\$391, 346

TABLE LXXXI.—RAILROADS—Per cent. of profit upon capital stock (paid in) of companies, &c.—Continued.

Per cent. of profit.	Group V.		Group VI.		Aggregate for the United States.			Per cent. of profit.
	Number of companies.	Amount of stock.	Number of companies.	Amount of stock.	Number of companies.	Amount of stock.	Per cent.	
Up to 1.....	4	Dollars. 4,991,437	13	Dollars. 164,714,974	92	Dollars. 394,782,624	18.77	Up to 1.
1 to 2.....	1	300,000	5	6,924,720	64	215,015,062	10.23	1 to 2.
2 to 3.....	7	31,902,240	7	31,902,240	52	193,364,414	9.19	2 to 3.
3 to 4.....	1	1,500,000	3	6,837,950	47	64,227,836	3.06	3 to 4.
4 to 5.....	10	26,239,220	10	26,239,220	33	52,892,063	2.52	4 to 5.
5 to 6.....	3	62,243,500	3	62,243,500	40	120,131,427	5.71	5 to 6.
6 to 7.....	1	130,000	1	130,000	62	137,497,889	6.54	6 to 7.
7 to 8.....	3	12,950,000	3	12,950,000	56	137,061,080	6.52	7 to 8.
8 to 9.....	1	749,990	2	6,805,700	38	156,457,867	7.44	8 to 9.
9 to 10.....	2	211,000	2	1,459,000	20	70,415,856	3.35	9 to 10.
10 to 15.....	2	211,000	4	46,855,100	71	479,357,019	22.79	10 to 15.
15 to 20.....	1	5,000,000	5	14,591,254	17	67,373,787	3.20	15 to 20.
20 and upward.....	1	5,000,000	8	6,533,004	31	14,410,322	0.68	20 and upward.
Aggregate.....	10	12,752,477	66	388,145,662	623	2,103,068,246	.....	.....
Total net income available to dividends upon stock of companies herein included.		\$754,066		\$18,856,908		\$132,989,336		.....
Average per cent. profit.		5.91		4.86		6.32		.....
Net income of companies having no stock.		\$8,640		\$75,124		\$1,069,762		.....

TABLE LXXXII.—Condensed statement of per cent. of profit upon capital stock.

Stock.	Up to 1, and from 1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 and upward.	No profit.	Aggregate.
Amount.....	Dollars. 920,362,899	Dollars. 621,564,219	Dollars. 479,357,019	Dollars. 67,373,787	Dollars. 14,410,322	Dollars. 510,538,018	Dollars. 2,613,606,264
Per cent.....	35.20	23.78	18.35	2.58	0.56	19.53	100

TABLE LXXXIII.—Capital stock paid in.

[NOTE.—Of all the companies which have reported assets and liabilities 118 have issued no stock.]

Description.	No. of companies.	Amount.	Total.	Per cent.
Stock of companies which report net income available to dividends.	623	Dollars.	Dollars. 2,103,068,246	80.47
Stock of companies which report deficits, or income balanced by expenditures.	373	449,905,903	.....	.....
Stock of companies whose roads are under construction and have no earnings.	169	60,632,115	.....	.....
Total stock of companies which have no net income.	.....	.....	510,538,018	19.53
Total stock paid in.....	1,165	.....	2,613,606,264	100.00

TABLE LXXXIV—RAILROADS—*Net income available to dividends upon capital stock.*

[NOTE.—Of the 1,016 companies which report an income (whether operating, lessor, or otherwise) 666 have obtained a net income, and 350 none whatever.]

Description.	No. of companies.	Amount.
Net income of companies which report capital stock.....	623	<i>Dollars.</i> 132,989,336
Net income of companies which have no stock.....	43	1,069,762
Total net income reported	666	134,059,098

There are 1,165 companies which report an aggregate capital stock (paid in) amounting to \$2,613,606,264, of which 623 have earned a net income or a profit upon their stock. The balance of 542 companies earned no profit whatever; 373 of the latter created deficits or had their income balanced by expenditures, and 169 companies had not yet commenced operations, their roads being under construction.

The net income or profit available for dividends upon stock of these 623 companies (\$2,103,068,246, or 80 per cent. of the aggregate for the United States) amounts to \$132,989,336, and is an average per cent. of profit upon such stock of 6.32.

The balance of stock is that which bears no profit, and amounts to \$510,538,018, or nearly 20 per cent. of the aggregate report for the country. Of this amount \$449,905,903 is stock of companies having deficits or having their income balanced by expenses, and \$60,632,115 is stock of companies whose roads are yet under construction.

Average per cent. profit upon both capital stock paid in and funded debt.

Capital stock and funded debt	\$5,004,521,666
Total income	661,295,391
Total expenditures, less interest on funded debt.....	415,508,485
Net income or profit.....	245,786,906

Income is 13.21 per cent. of stock and funded debt.

Expenditures, less interest on funded debt, 8.30 per cent. of stock and funded debt.

Net income or profit, 4.91 per cent. of stock and funded debt.

If those companies are only taken which report net income and those which report deficits are excluded, then the net profit upon the stock and funded debt of such companies in the United States will average 5.2 per cent.

Financial results.

Gross earnings	\$580,450,594
Transportation expenses.....	352,800,120
Net earnings	227,650,474
Less fixed charges and general expenses of lessor companies, reduced by income from all other sources than earnings.....	108,305,878
Amount available for dividends.....	119,344,596

Stock (preferred and common), \$2,613,606,264.

Per cent. earned upon stock, 4.566.

Per cent. declared upon stock, 2.699.

Per cent. held, 1.867.

RAILROAD SYSTEM OF THE UNITED STATES.

Deficits.

120 companies have operating expenses over gross earnings.....	\$1,427,581
176 companies have fixed charges over gross income.....	13,286,921
31 companies declare dividends and have no net income.....	529,974
Total.....	<u>15,244,476</u>

Revenue train mileage statistics.

Total miles of road operated.....	86,782
Earnings per mile.....	\$6,688
Expenses per mile.....	4,065
Net earnings per mile.....	2,623
Freight trains: Mileage.....	251,022,710
Earnings per mile.....	\$1 65
Expenses per mile.....	93
Profit per mile.....	67
Passenger trains: Mileage.....	138,225,621
Earnings per mile (including express and mails).....	\$1 18
Expenses per mile.....	76
Profit per mile.....	43

TABLE LXXXV.—RAILROADS—Tonnage: Classification of articles carried.

[NOTE.—The same articles often carried by several, perhaps many, companies, even in different groups. The aggregates, therefore, exhibit, *not quantities*, but proportions.]

Articles.	Group I.	Group II.	Group III.	Group IV.	Group V.	Group VI.	Aggregate for United States.
Grain.....	2,767,334	23,903,678	1,097,200	12,273,096	5,646	1,866,550	42,003,504
Flour.....	1,223,495	3,864,537	352,462	1,787,172	8,541	213,490	7,449,717
Provisions.....	1,004,247	4,373,741	638,649	814,758	22,987	245,143	7,099,525
Cotton.....	502,708	957,453	1,679,715	362,003	96,496	360,020	3,958,395
Live-stock.....	766,271	5,073,225	543,055	3,711,344	16,617	703,707	10,814,219
Stone, lime, cement, clay, and sand.....	987,769	6,292,027	336,364	1,095,176	6,128	282,918	9,000,322
Lumber and other forest products.....	2,395,090	13,019,552	1,757,231	6,447,585	29,265	1,825,626	25,474,349
Coal.....	2,673,998	76,470,439	2,479,305	6,692,437	4,664	1,302,056	89,622,899
Petroleum.....	207,431	7,342,843	52,336	72,656	1,165	38,461	7,714,892
Pig, bloom, and railroad iron.....	545,794	8,133,842	529,044	2,153,325	871	300,496	11,663,372
Manufactures.....	3,653,515	11,398,882	452,942	1,919,194	41,646	267,387	17,733,566
Merchandise and miscellaneous.....	8,251,069	31,536,406	5,948,249	8,079,029	516,575	3,974,590	58,295,918
Unspecified.....						66,717	66,717
Aggregate.....	24,978,661	102,446,645	15,866,552	45,407,775	750,601	11,447,161	290,897,395

Tonnage and passengers.

Freight tonnage: Number tons carried.....	290,897,395
Average miles hauled.....	111
Tons, one mile.....	32,348,846,693
Revenue.....	\$416,145,758
Receipts per ton per mile.....	1.29 cents.
Cost per ton per mile.....	0.76 cents.
Profit per ton per mile.....	0.53 cents.

Passengers: Number carried.....	269, 583, 340
Average distance.....	23 miles.
Passengers carried one mile.....	6, 189, 240, 914
Revenue.....	\$144, 101, 709
Receipts per passenger per mile (a).....	2.33 cents.
Cost per passenger per mile.....	1.71 cents.
Profit per passenger per mile.....	0.61 cents.
Freight traffic: Tons carried, local.....	153, 163, 276
Tons carried, through.....	137, 513, 992
Tons carried, total (b).....	290, 897, 395
Passenger traffic: Passengers, season (c).....	23, 665, 251
Passengers, local.....	244, 178, 377
Passengers, through.....	25, 404, 963
Passengers, total.....	269, 583, 340
Freight tonnage: (d) Local.....	14, 252, 169, 774
Through.....	18, 075, 963, 658
Revenue: Local.....	\$233, 688, 202
Through.....	182, 457, 556
Average rate per mile: Local.....	1.64 cents.
Through.....	1.01 cents.
Local and through.....	1.29 cents.

Passengers carried one mile are not separately specified for local and through.

Equipment.

Locomotives.....	Number.	17, 412
Passenger cars.....	12, 330	
Mail, express, and baggage cars.....	4, 475	
Freight cars.....	375, 312	
All other kinds of cars.....	80, 138	
Cost of equipment.....	\$418, 045, 459	

Employés.

	Number.	Aggregate.
General officers.....	3, 375	8, 655
General office clerks.....	63, 380	
Stationmen.....		79, 650
Trainmen: Engineers.....	18, 977	
Conductors.....	12, 419	
All others.....	48, 254	
Shopmen: Machinists.....	22, 766	
Carpenters.....	23, 202	
All others.....	43, 746	
Trackmen.....		89, 714
All other employés.....		122, 489
Aggregate.....		51, 694
Amount of yearly pay-rolls.....		418, 957
Amount of yearly pay-rolls.....		\$195, 350, 013

a Not including express or mails.

b This amount includes 220,127 tons of companies which omitted to specify them as through or local.

c Included in amount of local.

d Of freight tonnage 20,713,261 tons were left unspecified.

TABLE LXXXVI.—RAILROADS—*Accidents on railroads.*

A—CONDENSED SUMMARY.

To whom happened.	Through causes beyond their control.		Through their own carelessness.		Aggregate.		Total accidents.
	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	
Passengers	61	331	82	213	143	544	687
Employees	260	1,004	663	2,613	923	3,617	4,540
All other	43	103	1,429	1,348	1,472	1,451	2,923
Unspecified					3	62	65
Total	364	1,438	2,174	4,174	2,541	5,674	8,215

B—SUMMARY OF ACCIDENTS BY GEOGRAPHICAL GROUPS.

Geographical groups.	From causes beyond their control.						From their own carelessness.						Total killed.	Total injured.	Total accidents.
	Passengers.		Em-ployés.		Others.		Passengers.		Em-ployés.		Others.				
	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.			
The United States.	61	331	260	1,004	43	103	82	213	663	2,613	1,429	1,348	2,541	5,674	8,215
Group I		11	19	49	1	12	15	17	64	138	151	91	250	318	568
Group II	24	157	119	480	28	54	37	110	330	1,546	844	850	1,412	3,197	4,609
Group III		13	30	109	2	1	5	20	41	165	83	83	101	390	551
Group IV	18	70	73	210	6	31	13	36	163	501	274	221	547	1,078	1,625
Group V	3		1	5	1	1				1	2		7	7	14
Group VI	16	81	18	142	5	4	12	30	35	262	75	103	164	684	848

^a These amounts include 3 killed and 62 injured on roads in Group VI, whose companies did not specify such accidents separately, but only reported them in the aggregate.

STEAM CRAFT.

TABLE LXXXVII.—*Statement of the total number, tonnage, value, capital*
UNITED STATES INTERESTS—MERCHANT STEAM CRAFT.

	Interests.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
	Grand total.....	5, 139	1, 221, 206. 93	<i>Dollars.</i> 80, 192, 495	<i>Dollars.</i> 112, 005, 600
1	United States waters (<i>g</i>).....	4, 778	1, 194, 888. 98	78, 848, 325	110, 478, 080
2	State waters (<i>h</i>).....	218	9, 338. 89	680, 070	782, 326
3	Canal interests.....	143	16, 979. 06	664, 100	745, 200

a In addition to the above there were 7,032 roustabouts employed on the western rivers.

b Gross earnings equal 75.9 per cent. on capital invested.

c Average wages, \$406 97 per annum, including officers, crews, and roustabouts.

d Passengers lost, 197; employes, 106; run down, &c., 17; total, 320.

e Includes 867,120 tons freight reported towed by the barge lines of Saint Louis.

UNITED STATES WATERS—MERCHANT STEAM TONNAGE AND TRAFFIC.

[Waters with a navigable outlet and subject to customs and inspection laws.]

	Total.....	a4, 778	1, 194, 888. 98	78, 848, 325	110, 478, 080
	GROUP I.				
1	New England states.....	463	118, 553. 74	7, 890, 550	13, 743, 200
	GROUP II.				
2	Northwestern lakes.....	947	222, 290. 45	13, 918, 925	16, 978, 108
	GROUP III.				
3	Upper Mississippi river.....	366	83, 918. 09	3, 004, 050	6, 086, 760
	GROUP IV.				
4	Ohio river.....	473	107, 472. 48	5, 661, 500	6, 051, 522
	GROUP V.				
5	Middle states.....	1, 459	432, 803. 26	32, 763, 850	48, 091, 084
	GROUP VI.				
6	Lower Mississippi river.....	315	48, 303. 06	2, 851, 550	3, 260, 450
	GROUP VII.				
7	Gulf of Mexico.....	126	41, 610. 67	3, 272, 800	3, 713, 466
	GROUP VIII.				
8	South Atlantic coast.....	266	30, 833. 13	2, 515, 300	3, 135, 100
	GROUP IX.				
9	Pacific coast.....	319	97, 004. 88	6, 477, 500	8, 854, 496
	GROUP X.				
10	Upper Missouri river.....	44	12, 090. 22	492, 300	563, 900

a Exclusive of canal interests of New York (city), New Jersey, and Pennsylvania. See Group V.

b In addition to the above there were 7,032 roustabouts employed on the western rivers.

c Average wages, \$409 19 per annum, including officers, crews, and roustabouts.

STEAM CRAFT.

invested, service, and traffic of the steam-craft of the United States for 1880.

UNITED STATES INTERESTS—MERCHANT STEAM CRAFT.

Crews (per-sons).	EARNINGS.		Paid for services.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
	Gross earnings.	Percentage on capital.				Coal, in tons.	Wood, in cords.
<i>a</i> 56,811	<i>Dollars.</i> 85,091,067	75.9	<i>Dollars.</i> 25,982,803	<i>Number.</i> 168,463,001	<i>e</i> 25,451,404	<i>f</i> 3,827,993	<i>f</i> 794,775
55,453 636 732	83,903,537 357,326 800,264	75.9 49.5 107.3	25,568,296 132,790 231,717	167,683,106 774,395 5,500	24,819,523 54,035 577,846	3,782,852 11,427 33,714	784,785 9,771 219

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f Average of coal used, per ton of custom-house measurement, 3.13 tons; wood, 0.65 cord.
g Waters with a navigable outlet and subject to customs and inspection laws of the United States.
h Waters within states, with no navigable outlet and not subject to customs and inspection laws of the United States.
i Including 18 cable-boats, measuring 1,800 tons, on the Erie canal.

UNITED STATES WATERS—MERCHANT STEAM TONNAGE AND TRAFFIC.

[Waters with a navigable outlet and subject to customs and inspection laws.]

<i>b</i> 55,453	83,903,537	75.9	<i>c</i> 25,568,296	<i>d</i> 167,683,106	24,819,523	<i>e</i> 3,782,852	<i>e</i> 784,785
5,645	7,849,828	57.1	2,667,135	15,474,710	2,610,416	375,080	8,568
9,143	12,136,228	71.4	3,293,964	1,356,010	4,368,171	488,610	255,629
4,874	7,668,864	125.9	2,204,644	1,299,553	<i>f</i> 3,500,035	525,331	93,318
7,090	7,628,924	126.0	2,847,085	3,961,798	2,446,353	676,347	16,474
17,268	31,836,519	66.2	8,812,469	135,653,282	7,217,415	1,272,857	12,642
3,959	4,168,989	127.8	1,626,029	1,385,357	1,276,972	184,951	112,254
1,919	2,806,310	75.5	1,016,800	79,260	694,343	41,993	62,556
1,886	2,598,709	82.8	845,251	1,787,065	553,222	64,995	66,835
3,008	6,362,770	71.8	1,953,451	6,604,712	2,087,293	146,407	103,446
661	826,396	146.5	301,468	81,359	65,303	6,281	53,063

d Passengers lost, 197; employes, 106; run down, &c., 17; total, 320.
e Average of coal used, per ton of custom-house measurement, 3.16 tons; wood, 0.65 cord.
f Includes 867,120 tons freight reported towed by the barge lines of Saint Louis.

TABLE LXXXVII.—STEAM CRAFT—*Statement of the total number, tonnage, value, STATE WATERS—STEAM TONNAGE AND TRAFFIC.*

[Waters within states with no navigable outlet, and not subject to customs laws.]

	States.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
	Total	218	9, 388. 89	Dollars. 680, 070	Dollars. 782, 320
1	Maine	25	647. 30	37, 400	87, 150
2	New Hampshire	18	931. 79	92, 300	92, 400
3	Vermont	2	13. 00	9, 000	9, 000
4	Massachusetts	7	32. 60	8, 900	11, 600
5	New York	50	5, 264. 00	265, 600	294, 300
6	Pennsylvania	12	209. 19	32, 500	52, 500
7	Michigan	25	635. 57	42, 000	42, 000
8	Wisconsin	24	613. 40	81, 700	81, 700
9	Minnesota	12	743. 00	76, 770	77, 770
10	Iowa	4	48. 00	4, 300	4, 300
11	California	9	201. 64	29, 600	29, 600

a Average wages, \$208 78 per annum.

CANAL INTERESTS—STEAM CRAFT ON CANALS.

	Total	143	16, 979. 06	664, 100	745, 200
1	New York, west (<i>a</i>)	36	4, 042. 73	121, 800	124, 800
2	Illinois (<i>a</i>)	26	2, 567. 24	122, 500	134, 700
3	New York, city (<i>b</i>)	34	3, 828. 35	206, 000	206, 000
4	New Jersey (<i>b</i>)	12	1, 876. 93	59, 000	65, 000
5	Pennsylvania, east (<i>b</i>)	24	3, 533. 81	139, 000	198, 900
6	Maryland (<i>c</i>)	11	1, 130. 00	15, 800	15, 800

a The canal interests of Illinois and New York (west) cannot be properly classed in Group II.
b The canal interests of New York (city), New Jersey, and Pennsylvania (east) can properly be classed in Group V.

TABLE LXXXVIII.—*Statement of the number, tonnage, value, capital invested,*

GROUP I.—NEW ENGLAND STATES.

	States.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
	Total	463	118, 553. 74	Dollars. 7, 890, 550	Dollars. 13, 743, 200
1	Maine	87	16, 344. 36	1, 093, 300	1, 903, 100
2	New Hampshire	7	267. 79	30, 600	35, 200
3	Vermont	10	2, 246. 26	212, 300	217, 250
4	Massachusetts	173	48, 855. 68	3, 257, 500	5, 217, 250
5	Rhode Island	70	21, 486. 52	1, 539, 650	3, 245, 100
6	Connecticut	116	29, 323. 13	1, 752, 200	3, 125, 300

a Average wages, \$472 47 per annum.

capital invested, service and traffic of the steam craft of the United States, &c.—Continued.

STATE WATERS—STEAM TONNAGE AND TRAFFIC.

[Waters within states with no navigable outlet, and not subject to customs laws.]

Crews (per-sons).	Gross earn-ings.	Percentage on capital.	Paid for services.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
						Coal, in tons.	Wood, in cords.
636	Dollars. 387,326	-----	Dollars. a 132,790	Number. 774,395	54,335	b 11,427	b 9,771
100	27,615	-----	8,898	18,266	6,712	5	2,168
61	30,592	-----	12,244	43,723	7,908	12	1,783
8	4,500	-----	760	4,060	3,500	-----	700
13	6,250	-----	1,455	37,575	-----	80	12
232	118,706	-----	42,776	313,325	9,315	8,470	1,278
35	58,340	-----	9,371	178,400	-----	1,064	8
26	37,533	-----	14,491	13,310	11,059	143	1,865
59	25,800	-----	11,875	89,069	-----	450	605
68	67,400	-----	24,300	60,756	6,750	1,180	1,109
7	1,650	-----	620	8,000	-----	43	43
17	8,940	-----	6,000	7,950	8,800	-----	200

b Average of coal used, per ton of measurement, 1.22 tons; wood, 1.04 cords.

CANAL INTERESTS—STEAM CRAFT ON CANALS.

722	800,204	-----	281,717	5,500	577,846	33,714	219
139	63,130	-----	23,595	5,500	56,046	2,399	48
121	293,826	-----	61,414	-----	219,420	10,230	-----
167	131,161	-----	169,150	-----	20,300	9,923	-----
104	160,926	-----	43,715	-----	111,200	4,655	52
158	146,161	-----	48,843	-----	78,980	6,507	119
33	-----	-----	-----	-----	-----	-----	-----

c No traffic reported. Labor troubles in the Cumberland region interfered with traffic on the Chesapeake and Ohio canal in 1880.

service, and traffic of the steam craft on United States waters, by groups: 1880.

GROUP I.—NEW ENGLAND STATES.

Crews (per-sons.)	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
5,645	Dollars. 7,849,828	Dollars. a 2,667,135	Number. 15,474,710	2,610,416	b 375,080	b 8,568
724	892,678	339,674	530,282	301,862	42,009	1,776
24	20,980	7,360	11,500	-----	630	15
102	103,214	32,045	92,492	2,530	4,150	1,203
2,298	3,240,652	952,703	13,035,790	694,079	181,414	811
1,053	1,485,952	586,700	821,078	419,929	53,195	2,564
1,442	2,106,352	748,503	973,568	1,192,066	143,682	2,199

b Average of coal used, per ton of custom-house measurement, 3.16 tons; wood, 0.07 cord.

TABLE LXXXVIII.—STEAM CRAFT—*Statement of the number, tonnage,*
 GROUP II.—NORTHWESTERN LAKES.

States.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Total	947	222, 230.45	Dollars. 13, 918, 925	Dollars. 16, 978, 108
1 Michigan	397	66, 457.85	4, 508, 725	5, 972, 903
2 Wisconsin (east)	114	12, 977.00	769, 500	1, 093, 650
3 Illinois (east)	c 89	13, 468.11	847, 800	1, 207, 435
4 Ohio (north)	117	38, 353.27	2, 124, 700	3, 089, 400
5 Pennsylvania (Erie)	26	24, 969.33	1, 650, 100	1, 956, 700
6 New York (west)	d 204	66, 064.89	4, 038, 100	3, 658, 020

a Average wages, \$360 27 per annum.

c Exclusive of canal interests, 26 steamers, measuring 2,567.24 tons, valued at \$122,500; capital invested, \$134,700; crew, 121; earnings, \$293,826; services, \$61,414; freight traffic, 310,420 tons; coal used, 10,230 tons.

GROUP III.—UPPER MISSISSIPPI RIVER.

Total	366	83, 918.09	3, 004, 050	6, 086, 760
1 Minnesota	49	4, 375.52	196, 500	284, 252
2 Iowa (east)	55	6, 499.66	283, 050	1, 238, 374
3 Wisconsin (west)	39	5, 658.64	169, 200	204, 500
4 Illinois (west)	56	6, 510.77	256, 500	540, 050
5 Missouri	167	60, 873.50	2, 038, 800	3, 819, 584

a In addition to above there were 2,950 roustabouts employed.

b Average wages, \$281 77 per annum, including officers, crews, and roustabouts.

GROUP IV.—OHIO RIVER.

Total	473	107, 472.48	5, 661, 500	6, 051 522
1 Pennsylvania (Pittsburgh)	151	33, 802.12	2, 161, 400	2, 253, 050
2 West Virginia	61	7, 497.34	312, 600	426, 600
3 Ohio (river)	119	35, 171.33	1, 458, 000	1, 505, 422
4 Kentucky	91	23, 256.89	1, 300, 500	1, 415, 950
5 Indiana	51	7, 744.80	399, 000	445, 500

a In addition to the above there were 2,000 roustabouts employed.

b Average wages, \$313 21 per annum; including officers, crews, and roustabouts.

GROUP V.—MIDDLE STATES.

Total	a 1, 459	432, 803.26	32, 763, 850	43, 091, 084
1 New York (east)	d 876	279, 244.53	21, 077, 150	33, 535, 651
2 New Jersey	163	41, 811.17	2, 402, 150	2, 943, 450
3 Pennsylvania (east)	203	54, 086.66	4, 516, 300	5, 671, 243
4 Delaware	25	5, 877.97	302, 300	497, 800
5 Maryland	158	44, 837.16	3, 870, 050	4, 609, 950
6 District of Columbia	34	6, 945.77	595, 000	832, 980

a Exclusive of canal interests.

b Average wages, \$510 33 per annum.

GROUP VI.—LOWER MISSISSIPPI RIVER.

Total	315	48, 303.06	2, 851, 550	3, 260, 450
1 Tennessee	61	11, 348.40	539, 000	708, 500
2 Arkansas	37	5, 046.75	227, 400	270, 300
3 Mississippi	40	3, 657.20	204, 450	242, 150
4 Louisiana	d 177	28, 250.71	1, 839, 700	2, 030, 500

a Add 1,606 roustabouts to above.

b Average wages, \$287 53 per annum.

value, capital invested, service, and traffic of the steam craft, &c.: 1880—Continued.

GROUP II.—NORTHWESTERN LAKES.

Crews (per-sons).	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal in tons.	Wood, in cords.
9, 143	<i>Dollars.</i> 12, 136, 223	<i>Dollars.</i> a 3, 293, 964	<i>Number.</i> 1, 356, 010	4, 368, 171	b 488, 610	b 255, 629
3, 263	4, 316, 428	1, 281, 256	804, 454	920, 120	197, 886	172, 176
665	723, 884	270, 741	116, 983	382, 100	27, 983	34, 803
787	950, 149	315, 115	166, 743	250, 762	34, 073	34, 267
868	1, 648, 596	379, 601	35, 826	782, 882	79, 411	3, 408
1, 646	1, 219, 816	352, 963	32, 169	476, 780	32, 567	-----
1, 914	3, 277, 355	694, 288	199, 835	1, 546, 527	115, 790	10, 975

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b Average of coal used, per ton of custom-house measurement, 2.19 tons; wood, 1.15 cords.

d Exclusive of canal interests, 36 steamers, measuring 4,042.73 tons, valued at \$121,800; capital invested, \$124,800; crew, 139; earnings, \$68,130; services, \$22,595; passenger traffic, 5,500; freight traffic, 56,946 tons; coal used, 2,399 tons; wood, 43 cords.

GROUP III.—UPPER MISSISSIPPI RIVER.

a 4, 874	7, 608, 864	b 2, 204, 644	1, 299, 553	c 3, 500, 035	d 525, 331	d 93, 318
501	427, 254	166, 199	63, 054	14, 027	8, 312	28, 381
665	638, 894	230, 462	141, 590	365, 476	45, 300	14, 128
536	453, 807	265, 385	48, 921	54, 318	14, 875	20, 686
439	587, 960	179, 223	403, 685	569, 399	57, 185	4, 878
2, 733	5, 560, 949	1, 423, 375	642, 303	c 2, 556, 815	399, 659	25, 085

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c Includes 867,120 tons reported by the barge lines of Saint Louis.

d Average of coal used, per ton of custom-house measurement, 6.25 tons; wood, 1.11 cords.

GROUP IV.—OHIO RIVER.

a 7, 090	7, 628, 924	b 2, 847, 085	3, 961, 798	2, 446, 353	c 676, 347	c 16, 474
2, 209	2, 764, 445	1, 092, 595	184, 742	299, 855	273, 746	250
613	376, 877	163, 671	179, 785	121, 308	39, 401	495
2, 232	2, 349, 338	824, 325	764, 991	552, 190	163, 783	5, 299
1, 448	1, 472, 772	561, 261	2, 626, 686	676, 428	161, 731	7, 633
588	664, 892	205, 233	205, 594	796, 572	27, 686	2, 797

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c Average of coal used, per ton of custom-house measurement, 6.29 tons; wood, 0.15 cord.

GROUP V.—MIDDLE STATES.

17, 268	31, 856, 519	b 8, 812, 469	135, 653, 282	7, 217, 415	c 1, 272, 857	c 12, 642
11, 028	22, 357, 754	5, 858, 691	93, 370, 484	3, 270, 839	799, 553	7, 194
1, 371	2, 615, 793	938, 001	39, 991, 653	1, 669, 231	109, 030	1, 884
1, 982	3, 366, 763	938, 563	1, 227, 714	1, 065, 792	210, 357	820
229	139, 993	55, 289	67, 590	152, 760	8, 461	1, 749
2, 521	3, 075, 640	1, 038, 825	908, 832	995, 353	124, 717	870
237	300, 576	83, 100	87, 009	63, 500	20, 739	125

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c Average of coal used, per ton of custom-house measurement, 2.93 tons; wood, 0.02 cord.

d Including 18 cable boats, measuring 1,800 tons, on the Erie canal.

GROUP VI.—LOWER MISSISSIPPI RIVER.

a 3, 950	4, 168, 989	b 1, 626, 029	1, 385, 357	1, 276, 972	c 184, 951	c 112, 254
976	1, 035, 196	329, 329	76, 203	399, 565	75, 110	27, 573
480	389, 671	146, 356	57, 979	82, 635	2, 835	31, 093
443	300, 149	238, 931	53, 131	93, 364	5, 764	10, 813
2, 060	2, 443, 973	911, 413	1, 218, 044	701, 408	161, 242	42, 772

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c Average of coal used, per ton of custom-house measurement, 3.82 tons; wood, 2.32 cords.

d Exclusive of New Orleans ocean interests.

TABLE LXXXVIII.—STEAM CRAFT—*Statement of the number, tonnage,*

GROUP VII.—GULF OF MEXICO.

	States.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
	Total	126	41, 610, 67	Dollars. 3, 272, 800	Dollars. 3, 713, 466
1	Texas	25	4, 351. 91	196, 900	345, 466
2	Louisiana.....	c 18	25, 421. 68	2, 555, 000	2, 600, 000
3	Alabama	43	7, 168. 17	257, 600	421, 700
4	Florida (west).....	30	4, 668. 91	263, 300	346, 300

a Average wages, \$529 85 per annum.

b Average of coal used, per ton of custom-house measurement, 1.60 ton; wood, 1.50 cords.

GROUP VIII.—SOUTH ATLANTIC COAST.

	Total	266	30, 833. 13	2, 515, 300	3, 135, 100
1	Virginia	80	6, 251. 02	494, 400	526, 350
2	North Carolina.....	52	3, 859. 85	205, 700	231, 900
3	South Carolina.....	41	8, 242. 10	242, 700	397, 850
4	Georgia	44	13, 631. 45	1, 387, 300	1, 686, 500
5	Florida (east).....	40	2, 157. 69	185, 200	292, 500

a Average wages, \$448 17 per annum, including officers and crews.

GROUP IX.—PACIFIC COAST.

	Total	319	97, 004. 83	6, 477, 500	8, 854, 490
1	California.....	c 178	58, 828. 80	3, 763, 200	5, 916, 836
2	Oregon	89	31, 370. 04	2, 177, 000	d 2, 294, 754
3	Washington	52	6, 805. 14	537, 300	542, 900

a Average wages, \$649 41 per annum, including officers and crews.

b Average of coal used, per ton of custom-house measurement, 1.50 tons; wood, 1.06 cords.

GROUP X.—UPPER MISSOURI RIVER.

	Total	44	12, 099. 22	462, 300	563, 900
1	Nebraska.....	14	1, 193. 52	64, 300	87, 000
2	Dakota	19	7, 591. 67	228, 000	382, 000
3	Iowa (west).....	11	3, 314. 03	100, 000	f 94, 000

a In addition to the above there were 386 constabuls employed.

b Average wages, \$237 95 per annum, including officers, crews, and constabuls.

c Average of coal used, per ton of custom-house measurement, 0.51 ton; wood, 4.38 cords.

d Exclusive of railroad transfers, 20,306 passengers.

value, capital invested, service, and traffic of the steam craft, &c. : 1880—Continued.

GROUP VII.—GULF OF MEXICO.

Crews (per-sons).	Gross earnings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
1,919	<i>Dollars.</i> 2,806,310	<i>Dollars.</i> a 1,016,800	<i>Number.</i> 79,260	694,343	b 41,993	b 62,556
350	336,456	164,951	4,803	168,422	3,607	11,112
514	1,054,843	506,405	13,533	278,469	28,144	-----
702	437,465	251,220	51,237	184,187	240	38,528
353	377,546	94,224	9,687	63,265	9,912	12,916

c Ocean steamship interests of New Orleans.

GROUP VIII.—SOUTH ATLANTIC COAST.

1,886	2,598,709	a 845,251	1,787,065	553,222	b 64,995	b 66,835
491	567,793	187,661	1,556,609	139,048	29,904	3,621
335	419,964	110,335	29,421	180,219	5,030	14,569
332	386,260	150,936	135,664	97,264	7,889	19,657
494	1,091,430	325,137	34,701	114,030	22,045	15,331
234	133,262	71,162	30,730	13,661	127	13,157

* b Average of coal used, per ton of custom-house measurement, 2.10 tons; wood, 2.16 cords.

GROUP IX.—PACIFIC COAST.

3,003	6,362,770	a 1,953,451	6,604,712	2,087,293	b 146,407	b 103,446
1,970	4,011,084	1,158,200	6,309,502	1,561,256	137,349	14,123
788	1,983,703	602,576	159,903	476,898	8,233	22,889
250	367,983	192,675	135,307	49,139	825	66,434

c Exclusive of Pacific Mail interests owned in New York.

d Exclusive of dock, railroad, telegraph, and landed property of the Oregon Railway and Navigation Company.

GROUP X.—UPPER MISSOURI RIVER.

a 661	826,396	b 301,463	81,359	65,303	c 6,281	c 53,063
63	55,304	29,775	d 68,000	e 8,520	3,986	1,365
362	450,955	152,979	8,114	38,686	295	31,394
206	320,137	118,714	g 5,245	g 18,097	2,000	20,304

e Exclusive of 311,660 tons railroad transfer freight.

f Original investment; boats built between 1870 and 1878, when labor and material were cheap.

g Exclusive of railroad transfers, 7,173 passengers and 162,414 tons of freight.

TABLE LXXXIX.—STEAM CRAFT—*Statement of the number, tonnage,*
MAINE.

Class.		Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Grand total		112	16,991.66	<i>Dollars.</i> 1,185,700	<i>Dollars.</i> a 1,990,250
UNITED STATES WATERS.					
1	Passenger	40	14,079.51	888,500	1,468,500
2	Perry	6	555.28	31,100	35,200
3	Towing	28	1,310.49	150,200	363,600
4	Fishing	6	326.15	20,000	23,000
5	Yachts	7	72.93	8,500	13,800
Total		87	16,344.36	1,098,300	1,903,100
STATE WATERS.					
6	Passenger	25	647.30	37,400	87,150
Total		25	647.30	37,400	87,150

a In 19 leading lines: amount invested, \$1,555,000; number of boats, 41; tonnage, 13,105.24; length of routes, 1,644 miles.

NEW HAMPSHIRE.

Grand total		25	1,199.58	122,900	a 127,600
UNITED STATES WATERS.					
1	Passenger	2	179.20	22,000	22,000
2	Towing	2	77.59	6,500	9,000
3	Yachts	3	11.00	2,100	4,200
Total		7	267.79	30,600	35,200
STATE WATERS.					
4	Passenger	9	901.79	85,200	85,200
5	Yachts	9	30.00	7,100	7,200
Total		18	931.79	92,300	92,400

a In 3 leading lines: amount invested, \$76,000; number of boats, 5; tonnage, 647.15; length of routes, 70 miles.

VERMONT.

Grand total		12	2,259.26	221,300	a 226,250
UNITED STATES WATERS.					
1	Passenger	5	2,172.39	201,000	206,000
2	Yachts	5	73.87	11,300	11,250
Total		10	2,246.26	212,300	217,250
STATE WATERS.					
3	Passenger	2	13.00	9,000	9,000
Total		2	13.00	9,000	9,000

a In 4 leading lines: amount invested, \$211,000; number of boats, 6; tonnage, 2,156.77; length of routes, 183 miles.

value, capital invested, service, and traffic of the steam craft, by states : 1880.

MAINE.

Crews (per-sons).	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.		
					Coal, in tons.	Wood, in cords.	
824	<i>Dollars.</i> 920, 293	<i>Dollars.</i> b 348, 572	<i>Number.</i> 548, 548	308, 574	c 42, 014	c 3, 944	
556	833, 458	305, 802	319, 918	239, 498	32, 557	723	1
14	13, 914	9, 560	209, 704	62, 364	695	44	2
118	34, 786	18, 652	-----	-----	8, 070	1, 000	3
22	6, 545	3, 630	-----	-----	583	4	4
14	3, 975	2, 030	660	-----	104	5	5
724	892, 678	339, 674	530, 282	301, 862	42, 009	1, 776	
100	27, 615	8, 898	18, 266	6, 712	5	2, 168	6
100	27, 615	8, 898	18, 266	6, 712	5	2, 168	

b Average wages, \$423 02 per annum.

c Average of coal used, per ton of custom-house measurement, 2.47 tons; wood, 0.23 cord.

NEW HAMPSHIRE.

85	51, 572	b 19, 604	55, 229	7, 908	c 642	c 1, 798	
9	9, 480	2, 800	7, 600	-----	280	7	1
8	9, 800	3, 700	-----	-----	310	5	2
7	1, 700	860	3, 900	-----	40	3	3
24	20, 980	7, 360	11, 500	-----	630	15	
44	29, 092	11, 159	37, 729	6, 708	9	1, 655	4
17	1, 500	1, 085	6, 000	1, 200	3	128	5
61	30, 562	12, 244	43, 729	7, 908	12	1, 783	

b Average wages, \$230 63 per annum.

c Average of coal used, per ton of custom-house measurement, 0.53 ton; wood, 1.49 cords.

VERMONT.

110	107, 714	b 32, 805	96, 492	6, 030	c 4, 150	c 1, 903	
89	95, 514	28, 962	86, 266	2, 200	3, 730	1, 200	1
13	7, 670	3, 083	6, 226	330	420	3	2
102	103, 214	32, 045	92, 492	2, 530	4, 150	1, 203	
8	4, 500	760	4, 000	3, 500	-----	700	3
8	4, 500	760	4, 000	3, 500	-----	700	

b Average wages, \$298 22 per annum.

c Average of coal used, per ton of custom-house measurement, 1.83 tons; wood, 0.84 cord.

TABLE LXXXIX.—STEAM CRAFT—Statement of the number, tonnage, value,
MASSACHUSETTS.

Class.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Grand total.....	180	48,917.68	Dollars. 3,266,400	Dollars. 5,228,850
UNITED STATES WATERS.				
1 Passenger, ocean.....	11	12,017.10	583,000	931,000
2 Passenger, inland.....	47	26,533.73	1,857,500	2,725,500
3 Ferry.....	13	5,046.55	268,000	772,000
4 Freight.....	9	1,262.28	41,700	63,200
5 Towing.....	48	2,192.29	249,100	453,200
6 Yachts.....	30	315.62	63,600	71,450
7 Fishing.....	11	1,458.25	187,500	190,000
8 Water.....	4	55.46	7,100	10,900
Total.....	173	48,835.68	3,257,500	5,217,250
STATE WATERS.				
9 Yachts.....	7	32.00	8,900	11,600
Total.....	7	32.00	8,900	11,600

a In 11 leading lines: amount invested, \$3,475,872; number of boats, 35; tonnage, 24,118.12; length of routes, 2,513 miles.

b Average wages, \$412.87 per annum.

RHODE ISLAND.

Total.....	70	21,486.52	1,539,650	3,245,100
1 Passenger.....	21	14,777.11	1,207,800	2,802,300
2 Ferry.....	1	115.06	12,000	13,000
3 Towing.....	5	185.04	19,500	19,500
4 Freight.....	7	4,784.94	111,500	190,500
5 Fishing.....	19	1,440.13	146,500	175,500
6 Yachts.....	e 17	184.24	42,350	44,300

a In 6 leading lines: amount invested, \$2,942,100; number of boats, 21; tonnage, 19,696.37; length of routes, 300 miles.

b Average wages, \$556.17 per annum.

CONNECTICUT.

Total.....	116	29,323.13	1,752,200	3,125,300
1 Passenger.....	36	17,994.77	1,004,200	2,057,900
2 Ferry.....	11	4,140.14	241,600	305,900
3 Towing.....	21	838.55	99,500	194,500
4 Freight.....	12	4,487.65	217,000	332,500
5 Fishing.....	26	1,746.14	176,600	220,000
6 Yachts.....	e 10	115.88	13,300	14,500

a In 17 leading lines: amount invested, \$2,379,841; number of boats, 41; tonnage, 21,626.53; length of routes, 1,308 miles.

b Average wages, \$519.13 per annum.

MICHIGAN.

Grand total.....	a 422	67,093.42	4,550,725	b 6,014,903
UNITED STATES WATERS.				
1 Passenger.....	64	23,110.80	1,419,900	1,644,637
2 Ferry.....	18	2,962.43	299,700	347,300
3 Freight.....	68	27,898.15	1,712,000	2,388,565
4 Towing.....	176	11,194.72	966,200	1,436,368
5 Yachts.....	71	1,291.75	110,925	155,975
Total.....	397	66,457.85	4,508,725	5,972,803

a Two steamers, measuring 715.47 tons, not included in the above, were in existence a part of the year 1880, and 8 steamers laid up, measuring 464.93 tons, included in the above.

b In 30 leading lines: amount invested, \$2,480,637; number of boats, 71; tonnage, 27,451.24; length of routes, 10,874 miles.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

MASSACHUSETTS.

Crews (persons).	Gross earnings.	Paid for services.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
2,311	Dollars. 3,246,902	Dollars. b 954,158	Number. 13,073,365	694,079	c 131,494	c 823
344	732,698	221,444	9,094	329,844	24,874	139
1,188	1,703,782	406,675	1,764,761	271,062	69,574	2
81	281,026	122,450	11,261,935	(d)	8,552	3
142	188,330	43,487	-----	93,173	8,676	2
234	206,502	96,067	-----	-----	16,636	108
89	e 7,540	11,480	-----	-----	632	73
156	105,600	43,360	-----	-----	1,960	70
14	15,064	7,800	-----	-----	460	16
2,298	3,240,652	952,703	13,035,790	694,079	131,414	811
13	6,250	1,455	37,575	-----	80	12
13	6,250	1,455	37,575	-----	80	12

c Average of coal used, per ton of custom-house measurement, 2.68 tons; wood, 0.02 cord.
 d Teams, carriages, carts, and horses reported by the ferries of Boston, 852,367.
 e Earned by towing.

RHODE ISLAND.

1,055	1,485,952	b 586,760	c 831,078	419,939	d 53,185	d 2,564
617	790,531	315,165	796,078	250,080	28,231	989
4	5,854	2,280	35,000	3,000	365	2
22	67,467	19,786	-----	-----	2,100	43
168	429,544	179,832	-----	166,859	16,469	595
229	192,556	65,237	-----	-----	5,962	932
15	-----	4,230	-----	-----	68	3

c Twenty-seven passengers and 1 employé lost.
 d Average of coal used, per ton of custom-house measurement, 2.47 tons; wood, 0.12 cord.
 e Five only in service.

CONNECTICUT.

1,442	2,106,352	b 748,503	c 973,568	1,192,006	d 143,682	d 2,199
804	1,245,450	424,536	450,018	559,352	65,520	1,859
88	176,565	40,234	523,250	337,396	7,637	34
141	169,289	56,904	-----	-----	47,396	82
191	426,246	171,939	-----	295,258	16,751	69
187	88,502	54,235	-----	-----	6,240	145
31	200	695	300	-----	118	10

c One employé lost.
 d Average of coal used, per ton of custom-house measurement, 4.89 tons; wood, 0.07 cord.
 e Four only in service.

MICHIGAN.

3,299	4,333,961	c 1,295,747	d 817,764	940,170	e 198,029	e 174,041
1,102	1,242,183	373,717	471,334	374,916	54,071	71,169
88	72,412	41,308	280,728	3,850	6,881	4,568
892	1,621,769	431,776	-----	544,343	66,881	25,494
961	1,234,306	371,544	-----	-----	67,505	61,923
220	145,758	62,911	52,342	6,011	2,548	9,080
3,263	4,316,428	1,281,256	804,454	929,120	197,886	172,176

c Average wages, \$392 76 per annum.
 d Eighty-six passengers and 5 employés lost.
 e Average of coal used, per ton of custom-house measurement, 2.95 tons; wood, 2.59 cords.

TABLE LXXXIX.—STEAM CRAFT—Statement of the number, tonnage, value,
MICHIGAN—Continued.

	Class.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
STATE WATERS.					
				<i>Dollars.</i>	<i>Dollars.</i>
6	Passenger	12	451.00	24,900	24,900
7	Yachts	5	25.00	4,200	4,200
8	Towing	8	159.57	12,900	12,900
	Total	25	635.57	42,000	42,000

WISCONSIN.

	Grand total	<i>a</i> 177	19,249.04	1,020,400	<i>b</i> 1,379,850
UNITED STATES WATERS.					
<i>Lake.</i>					
1	Passenger	21	1,320.64	84,900	82,650
2	Ferry	2	46.93	4,000	4,000
3	Freight	23	9,069.51	426,300	545,900
4	Towing	55	2,303.38	223,900	425,500
5	Yachts	13	227.54	30,400	35,550
	Total	114	12,977.00	769,500	1,093,650
<i>River.</i>					
6	Passenger	12	2,763.34	75,700	97,786
7	Ferry	4	147.61	5,600	15,800
8	Towing	23	2,747.69	87,900	90,914
	Total	39	5,658.64	169,200	204,500
STATE WATERS.					
9	Passenger	12	459.00	46,500	46,500
10	Yachts	12	154.40	35,200	35,200
	Total	24	613.40	81,700	81,700

a Four steamers, measuring 229.32 tons, laid up, included in the above.

b In 10 leading lines: amount invested, \$644,500; number of steamers, 27; tonnage, 11,084.02; length of routes, 3,240 miles.

ILLINOIS.

	Grand total	<i>a</i> 171	22,546.12	1,226,800	<i>b</i> 1,832,185
LAKE.					
1	Passenger	13	9,180.50	457,000	600,000
2	Freight	10	2,436.05	111,500	122,500
3	Towing	51	1,559.89	244,400	245,400
4	Yachts	15	241.67	34,900	39,535
5	Canal	26	2,567.24	122,500	134,700
	Total	115	16,035.35	970,300	1,342,135
RIVER.					
6	Passenger	12	2,263.81	59,600	106,600
7	Ferry	23	2,925.90	122,500	344,700
8	Towing	21	1,330.97	74,400	88,750
	Total	56	6,510.77	256,500	540,050

a Three steamers laid up, measuring 95.10 tons, included in the above.

b In 7 leading lines: amount invested, \$632,000; number of boats, 21; tonnage, 12,869.29; length of routes, 2,449 miles.

c Average wages, \$393 59 per annum.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

MICHIGAN—Continued.

Crews (per-sons).	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.		
					Coal, in tons.	Wood, in cords.	
25	Dollars. 18, 181	Dollars. 7, 984	Number. 13, 310	11, 050	-----	1, 535	6
11	19, 352	6, 507	-----	-----	143	330	7
36	37, 533	14, 491	13, 310	11, 050	143	1, 865	8

WISCONSIN.

1, 260	1, 203, 491	c 488, 001	254, 904	436, 418	d 43, 308	d 56, 304	
113	72, 505	21, 608	53, 071	28, 991	216	9, 504	1
8	12, 000	3, 000	62, 812	-----	600	-----	2
226	350, 844	120, 029	-----	382, 959	15, 027	6, 084	3
272	242, 004	107, 754	-----	-----	8, 778	18, 860	4
46	37, 581	18, 350	1, 100	150	3, 302	335	5
665	723, 884	270, 741	116, 983	382, 100	27, 933	34, 803	
245	144, 989	50, 672	26, 021	54, 318	3, 805	4, 132	6
13	6, 210	4, 300	22, 900	-----	-----	1, 480	7
278	302, 603	150, 413	-----	-----	11, 070	15, 284	8
e 536	453, 807	205, 385	48, 021	54, 318	14, 875	20, 896	
39	22, 800	6, 555	89, 000	-----	365	325	9
20	3, 000	5, 320	-----	-----	85	280	10
59	25, 800	11, 875	89, 000	-----	450	605	

c Average wages, \$327 29 per annum.

d Average of coal used, per ton of custom-house measurement, 2.24 tons; wood, 2.92 cords.

e In addition to the above there were 231 roustabouts employed on the rivers.

ILLINOIS.

1, 347	1, 831, 935	c 555, 752	570, 428	1, 130, 581	d 102, 388	d 39, 145	
405	369, 855	113, 936	74, 371	212, 066	7, 878	23, 927	1
125	196, 638	61, 683	-----	38, 096	3, 631	7, 940	2
228	371, 158	133, 506	-----	-----	22, 934	2, 400	3
29	12, 498	5, 030	92, 372	-----	530	-----	4
121	293, 826	61, 414	-----	310, 420	10, 230	-----	5
908	1, 243, 975	376, 529	166, 743	561, 182	45, 203	34, 267	
167	183, 442	60, 428	49, 450	114, 734	16, 328	1, 466	6
110	270, 294	55, 317	354, 235	454, 665	27, 807	1, 581	7
162	134, 224	63, 478	-----	-----	13, 050	1, 831	8
e 439	587, 960	179, 223	f 403, 685	569, 399	57, 185	4, 878	

d Average of coal used, per ton of custom-house measurement, 4.54 tons; wood, 1.73 cords.

e In addition to the above there were 65 roustabouts.

f Three persons burned.

TABLE LXXXIX.—STEAM CRAFT—*Statement of the number, tonnage, value,*
OHIO,

Class.		Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Grand total		<i>a</i> 236	73,524.60	Dollars. 3,612,700	Dollars. 4,594,822
RIVER.					
1	Passenger	61	29,254.00	1,238,000	1,230,235
2	Ferry	20	1,293.30	50,100	64,062
3	Towing	82	4,580.79	191,900	202,825
4	Yachts	6	43.24	8,000	8,300
Total		<i>e</i> 119	35,171.33	1,488,000	1,505,422
LAKE.					
5	Passenger	6	1,067.76	63,000	115,000
6	Freight	47	35,179.15	1,791,000	2,654,800
7	Towing	55	2,004.80	253,700	300,900
8	Yachts	9	101.56	17,000	18,700
Total		<i>g</i> 117	38,353.27	2,124,700	3,080,400

a In 24 leading passenger and freight lines: capital invested, \$2,875,247; number of boats, 60; tonnage, 44,630 73; length of routes, 15,696 miles.

b Average wages, \$337 51 per annum.

c Two employes lost.

MINNESOTA.

Grand total		61	5,118.52	273,270	302,022
UNITED STATES WATERS.					
1	Passenger	11	998.35	39,200	50,800
2	Ferry	4	245.80	10,500	17,252
3	Towing	34	3,131.37	146,800	216,200
Total		49	4,375.52	196,500	284,252
STATE WATERS.					
4	Passenger	9	658.00	70,770	71,770
5	Towing	3	85.00	6,000	6,000
Total		12	743.00	76,770	77,770

a Average wages, \$334 79 per annum.

b One passenger and one employe lost.

IOWA.

Grand total		<i>a</i> 70	9,861.69	387,350	1,336,674
STATE WATERS.					
1	Passenger	22	5,241.04	166,700	374,000
2	Ferry	13	1,612.01	85,700	263,974
3	Towing	28	2,931.81	127,800	659,000
4	Yachts	5	28.83	2,850	5,400
Total		<i>e</i> 68	9,813.69	383,050	1,332,374
STATE WATERS.					
5	Passenger	4	48.00	4,300	4,300
Total		4	48.00	4,300	4,300

a One steamer, measuring 94.26 tons, not included in the above, was in existence a part of the year 1880.

b In addition to the above there were 467 roustabouts employed.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

OHIO.

Crews (per-sons).	Gross earnings.	Paid for services.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
3,100	<i>Dollars.</i> 3,998,534	<i>Dollars.</i> b 1,203,926	<i>Number.</i> c 800,817	1,335,072	d 248,194	d 8,707
1,806	1,892,822	667,105	414,645	549,190	111,312	5,224
60	49,726	21,059	350,846	3,000	4,643	-----
349	407,390	134,121	-----	-----	52,668	75
17	-----	1,440	-----	-----	160	-----
f 2,232	2,349,938	824,325	764,991	552,190	168,783	5,299
40	37,000	10,770	34,526	10,500	2,840	25
587	1,343,479	279,009	-----	772,382	56,203	1,916
223	264,517	86,822	-----	-----	20,018	1,467
18	3,600	3,000	1,800	-----	350	-----
868	1,048,596	379,601	35,826	782,882	79,411	3,408

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d Average of coal used, per ton of custom-house measurement, 3.37 tons; wood, 11 cords.
 e Laid up on the river, 3 steamers, measuring 344.56 tons, included in the above.
 f Roundabouts, 467, not included.
 g Laid up on the lakes, 4 steamers, measuring 343.42 tons, included in the above.

MINNESOTA.

569	494,654	a 190,499	b 123,804	20,777	c 9,472	c 29,440
102	64,933	26,488	44,730	14,027	578	4,221
17	14,166	6,807	18,324	-----	-----	1,581
382	348,155	132,904	-----	-----	7,734	21,629
501	427,254	166,199	63,054	14,027	8,312	28,331
47	31,400	14,300	60,750	6,750	560	443
21	36,000	10,000	-----	-----	600	656
68	67,400	24,300	60,750	6,750	1,160	1,109

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c Average of coal used, per ton of custom-house measurement, 1.85 tons; wood, 5.75 cords.

IOWA.

b 878	960,681	c 349,796	162,013	485,987	d 47,343	d 34,475
433	583,499	195,475	39,665	201,190	25,837	25,974
70	143,365	47,157	108,898	284,797	4,117	2,275
352	222,767	104,709	-----	-----	17,116	5,908
16	4,400	1,775	5,450	-----	230	275
871	950,031	349,176	154,013	485,987	47,300	34,432
7	1,650	620	8,000	-----	43	43
7	1,650	620	8,000	-----	43	43

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c Average wages, \$260 07 per annum.
 d Average of coal used, per ton of custom-house measurement, 4.80 tons; wood, 3.49 cords.
 e Including lines on the Upper Missouri river.

TABLE LXXXIX—STEAM CRAFT—Statement of the number, tonnage, value, MISSOURI.

Class.		Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Total		a 167	60, 873. 50	Dollars. 2, 098, 800	Dollars. b 3, 819, 584
1	Passenger	60	40, 728. 21	1, 166, 700	2, 007, 784
2	Ferry	37	6, 526. 11	310, 800	321, 050
3	Freight	13	3, 029. 48	47, 300	62, 600
4	Towing	46	10, 532. 73	569, 850	1, 423, 350
5	Yachts	11	56. 97	4, 150	4, 800

a Two steamers included in above, measuring 54.75 tons, were laid up. Six steamers, measuring 2,683.70 tons, not included, were in existence a part of the year 1880.

b In 12 leading lines: amount invested, \$1,943,000; number of boats, 40; tonnage, 31,492.55; length of routes, 9,228 miles.

c In addition to above there were 2,330 roustabouts employed.

WEST VIRGINIA.

Total		a 61	7, 497. 34	312, 600	426, 600
1	Passenger	32	5, 291. 69	206, 600	258, 900
2	Ferry	9	480. 11	19, 100	22, 200
3	Towing	20	1, 725. 54	86, 900	145, 500

a One steamer, measuring 146.96 tons, laid up, included in the above.

b In addition to the above there were 256 roustabouts.

c Average wages, \$188 34 per annum, including officers, crews, and roustabouts.

KENTUCKY.

Total		a 91	23, 256. 89	1, 300, 500	1, 415, 950
1	Passenger	43	18, 556. 59	1, 074, 100	1, 092, 050
2	Ferry	13	1, 446. 19	49, 900	62, 200
3	Towing	35	3, 254. 11	176, 500	261, 700

a One steamer, measuring 246.49 tons, not included in the above, was in existence a part of the year 1880.

b Five steamers, measuring 1,413.20 tons, included in the above, laid up.

c In addition to the above there were 517 roustabouts employed.

INDIANA.

Total		a 51	7, 744. 80	309, 000	445, 500
1	Passenger	24	6, 044. 94	275, 600	311, 300
2	Ferry	9	817. 23	64, 900	65, 790
3	Freight	4	196. 32	3, 300	7, 300
4	Towing	14	686. 31	55, 200	61, 200

a Three steamers, measuring 97.37 tons, included in the above, were laid up.

b In addition to the above there were 64 roustabouts.

c Average wages, \$314 77 per annum, including officers, crews, and roustabouts.

NEW YORK.

Grand total		a 1, 230	358, 444. 50	25, 708, 650	37, 813, 381
UNITED STATES WATERS.					
New York city.					
1	Ocean passenger	61	121, 060. 33	11, 041, 000	18, 105, 450
2	Inland passenger	97	49, 676. 97	3, 094, 000	5, 471, 900
3	Ferry	77	39, 291. 52	1, 701, 000	2, 720, 500
4	Freight	49	21, 924. 07	837, 500	1, 275, 900
5	Towing	287	14, 176. 25	1, 579, 900	2, 252, 381

a Laid up, 43 steamers, measuring 16,138.30 tons, valued at \$795,800, included in the above.

b Average wages, \$499 14 per annum.

c Sixty-seven passengers and forty-six employes lost.

capital invested, service, and traffic of the steam craft, by states : 1880—Continued.

MISSOURI.

Crews (per-sons).	Gross earnings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.		
					Coal, in tons.	Wood, in cords.	
<i>c</i> 2, 733	<i>Dollars.</i> 5, 560, 949	<i>Dollars.</i> <i>d</i> 1, 423, 375	<i>Number.</i> <i>e</i> 642, 303	<i>f</i> 2, 556, 815	<i>g</i> 399, 659	<i>g</i> 25, 085	
1, 760	2, 923, 415	919, 609	181, 300	1, 003, 793	197, 644	20, 082	1
213	582, 159	147, 479	461, 003	618, 152	39, 141	2, 249	2
116	141, 908	56, 227	-----	67, 750	6, 245	1, 396	3
625	1, 907, 817	299, 224	-----	867, 120	156, 582	1, 323	4
19	650	836	-----	-----	47	30	5

d Average wages, \$281 13 per annum, the short season accounting for the low average.

e One employé lost.

f Including 867,120 tons reported by the barge line of Saint Louis.

g Average of coal used, per ton of custom-house measurement, 6.56 tons; wood, 0.45 cord.

WEST VIRGINIA.

<i>b</i> 613	376, 877	<i>c</i> 163, 671	<i>d</i> 179, 785	121, 308	<i>e</i> 39, 401	<i>e</i> 495	
430	243, 166	99, 771	124, 215	119, 580	21, 211	190	1
23	18, 700	9, 515	55, 570	1, 728	2, 168	5	2
160	115, 011	54, 385	-----	-----	16, 022	300	3

d Two employés lost.

e Average of coal used, per ton of custom-house measurement, 5.25; wood, 0.06 cord.

KENTUCKY.

<i>b</i> 1, 448	1, 472, 772	<i>c</i> 561, 261	<i>d</i> 2, 626, 686	676, 428	<i>e</i> 161, 731	<i>e</i> 7, 633	
1, 060	1, 101, 975	418, 782	275, 925	552, 428	124, 896	6, 018	1
76	88, 590	31, 165	2, 350, 761	124, 000	8, 469	652	2
312	282, 297	111, 314	-----	-----	28, 366	963	3

c Average wages, \$285 62 per annum, including officers, crews, and roustabouts.

d Five passengers and two employés lost.

e Average of coal used, per ton of custom-house measurement, 6.95 tons; wood, 0.32 cord.

INDIANA.

<i>b</i> 588	664, 892	<i>c</i> 205, 233	<i>d</i> 205, 594	796, 572	<i>e</i> 27, 686	<i>e</i> 2, 797	
465	560, 763	169, 004	45, 709	790, 635	20, 203	2, 237	1
42	45, 607	12, 552	159, 885	-----	3, 656	-----	2
14	10, 911	3, 115	-----	5, 937	552	50	3
67	48, 511	20, 532	-----	-----	3, 275	510	4

d Four employés lost.

e Average of coal used, per ton of custom-house measurement, 3.57 tons; wood, 0.36 cord.

NEW YORK.

13, 480	25, 953, 106	<i>b</i> 6, 728, 500	<i>c</i> 93, 889, 144	4, 903, 927	<i>d</i> 936, 135	<i>d</i> 19, 495	
3, 428	10, 720, 321	2, 439, 699	85, 069	1, 331, 988	262, 718	516	1
1, 853	2, 636, 695	648, 042	3, 304, 923	636, 433	97, 006	4, 380	2
1, 135	2, 909, 962	834, 809	87, 972, 881	-----	109, 630	70	3
660	956, 520	373, 167	-----	773, 200	36, 920	173	4
1, 747	2, 504, 186	837, 784	-----	-----	155, 240	752	5

d Average of coal used, per ton of custom-house measurement, 2.61 tons; wood, 0.05 cord on operating steamers.

TABLE LXXXIX.—STEAM CRAFT—*Statement of the number, tonnage, value,*
NEW YORK—Continued.

	States.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
UNITED STATES WATERS—continued.					
<i>New York city—continued.</i>					
				<i>Dollars.</i>	<i>Dollars.</i>
6	Fishing	32	2,467.15	285,000	309,500
7	Canal	^a 34	3,828.85	206,000	206,000
8	Yachts	71	1,609.63	260,100	289,700
9	Miscellaneous	28	3,830.93	239,000	330,500
	Total	736	257,865.20	19,243,500	30,970,831
<i>Western lakes.</i>					
10	Passenger	27	13,074.90	870,000	871,775
11	Ferry	8	614.90	36,800	45,000
12	Freight	42	48,419.62	2,707,700	2,272,295
13	Towing	86	3,127.07	281,000	310,150
14	Canal	36	4,042.73	121,800	124,800
15	Yachts	41	828.40	142,600	158,800
	Total	240	70,107.62	4,159,900	5 3,782,820
<i>Hudson river.</i>					
16	Inland passenger	19	11,844.85	1,023,000	1,117,000
17	Ferry	15	2,488.39	142,000	170,300
18	Towing	109	11,097.34	825,400	1,429,600
19	Yachts	31	279.30	60,260	53,950
	Total	174	25,207.68	2,039,650	2,770,850
STATE WATERS.					
20	Passenger	22	4,673.50	177,000	199,000
21	Yachts	58	599.50	88,600	95,300
	Total	80	5,264.00	265,600	294,300

^a Including 18 cable-boats on the Erie canal, measuring 1,800 tons.

NEW JERSEY.

	Total	^a 175	43,688.10	2,461,150	3,008,450
1	Passenger	24	9,214.82	880,000	461,700
2	Ferry	36	23,463.46	1,274,000	1,198,700
3	Freight	18	3,210.11	169,000	228,500
4	Towing	65	5,754.08	551,400	1,087,200
5	Canal	12	1,676.93	59,000	65,000
6	Yachts	20	168.70	27,750	27,350

^a Four steamers, measuring 396.23 tons, laid up, included in the above.

^b Average wages, \$611.24 per annum.

PENNSYLVANIA.

	Grand total	416	116,601.11	8,479,300	10,137,393
UNITED STATES WATERS.					
<i>Atlantic coast.</i>					
1	Ocean passenger	10	17,538.84	1,175,000	1,406,400
2	Inland passenger	19	7,710.84	656,500	779,500
3	Ferry	8	1,649.48	229,000	130,000
4	Freight	25	18,485.17	1,123,500	1,619,606
5	Towing	115	8,230.32	1,246,500	1,629,937

^a Average wages, \$404.20 per annum, including officers, crews, and roustabouts.

^b One employe and one passenger lost.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

NEW YORK—Continued.

Crews (per-sons).	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.		
					Coal, in tons.	Wood, in cords.	
	<i>Dollars.</i>	<i>Dollars.</i>	<i>Number.</i>				
418	89,094	47,378	-----	-----	9,330	244	6
167	181,161	109,150	-----	20,300	9,923	-----	7
177	21,697	28,972	33,135	-----	3,266	65	8
251	430,503	193,400	-----	-----	7,196	66	9
9,836	20,409,139	5,512,401	91,395,998	2,761,321	690,629	6,266	
429	796,566	149,446	100,115	374,739	26,914	3,631	10
29	37,852	9,007	86,220	15,050	1,530	1,020	11
971	1,910,890	388,676	-----	1,156,438	59,307	5,839	12
397	514,875	123,204	-----	-----	25,931	382	13
139	68,130	23,595	5,500	56,946	2,399	48	14
88	17,172	18,395	4,500	300	2,108	103	15
2,053	3,345,485	717,883	205,335	1,603,473	118,189	11,023	
373	662,501	142,927	572,958	529,218	26,115	200	16
68	171,830	47,317	1,362,228	-----	6,472	18	17
860	1,230,438	257,868	-----	-----	85,445	685	18
53	15,007	7,323	39,300	-----	815	16	19
1,359	2,079,776	455,440	1,974,486	529,218	118,847	928	
142	94,278	32,122	242,885	8,164	7,366	1,046	20
90	24,428	10,654	70,440	1,151	1,104	232	21
232	113,706	42,776	813,325	9,315	8,470	1,278	

b Original capital; reinvestment of profits not given.

NEW JERSEY.

1,375	2,776,719	b 881,716	39,991,653	1,780,431	c 113,685	c 1,936	
260	356,987	101,387	2,356,535	257,983	20,180	1,682	1
401	1,247,477	383,293	37,628,278	1,149,548	42,571	5	2
137	67,548	56,628	-----	261,630	7,032	136	3
445	939,036	292,583	-----	-----	39,021	55	4
104	160,926	45,715	-----	111,200	4,655	52	5
28	4,745	4,110	6,840	20	226	6	6

c Average of coal used, per ton of custom-house measurement, 2.60 tons; wood, 0.04 cord.

PENNSYLVANIA.

6,030	7,555,525	a 2,437,395	b 1,623,115	1,921,347	c 529,241	c 1,197	
512	1,419,884	883,184	14,376	234,915	65,576	-----	1
207	261,945	59,437	695,238	97,040	27,772	374	2
123	78,262	23,086	501,250	2,100	4,109	23	3
364	936,237	165,377	-----	729,877	55,292	270	4
691	666,635	260,489	-----	-----	55,101	146	5

e Average of coal used, per ton of custom-house measurement, 4.53 tons; wood, 0.01 cord.

TABLE LXXXIX.—STEAM CRAFT—Statement of the number, tonnage, value,
PENNSYLVANIA—Continued.

	Class.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
UNITED STATES WATERS—continued.					
<i>Atlantic coast—continued.</i>					
6	Yachts	26	522.01	Dollars. 83,800	Dollars. 105,800
7	Canal	24	3,533.81	139,000	198,900
	Total	227	57,620.47	4,655,300	5,870,143
<i>Western rivers.</i>					
8	Passenger	24	7,010.67	261,100	428,000
9	Ferry	7	624.69	20,000	40,000
10	Towing	120	26,166.76	1,780,300	1,790,050
	Total	151	33,802.12	2,161,400	2,258,050
<i>Northern lakes.</i>					
11	Passenger	10	8,707.66	664,700	957,000
12	Freight	13	16,101.68	945,800	982,500
13	Towing	3	85.09	9,600	7,200
14	Yachts	1	74.90	10,000	10,000
	Total	26	24,969.33	1,630,100	1,956,700
<i>State waters.</i>					
15	Passenger	12	209.19	32,500	52,500
	Total	12	209.19	32,500	52,500

DELAWARE.

UNITED STATES WATERS.					
Total		<i>a</i> 25	5,877.97	302,300	497,800
1	Passenger	7	3,736.13	170,000	329,000
2	Freight	4	1,740.43	65,000	75,000
3	Towing	9	353.81	59,500	86,000
4	Yachts	5	47.55	7,800	7,800

a Two steamers included that are sailing under a foreign flag; capital held in this state and company organized under the laws of Delaware.

b Average wages, \$241.43 per annum.

MARYLAND.

Total		<i>a</i> 169	45,967.16	3,886,750	4,625,750
1	Ocean passenger	7	9,615.06	728,500	1,283,100
2	Inland passenger	40	20,184.91	1,871,000	1,670,400
3	Ferry	4	1,854.07	97,750	88,750
4	Freight	21	9,678.31	528,000	872,450
5	Towing	75	3,304.92	576,800	625,450
6	Canal	11	1,130.00	15,800	15,800
7	Yachts	11	199.69	68,900	63,800

a Eleven canal steamers, measuring 1,130 tons, value \$15,800, and one steamer, measuring 1,045.32 tons, laid up, included in the above.

b Average wages, \$406.74 per annum.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

PENNSYLVANIA—Continued.

Crews (per-sons).	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.		
					Coal, in tons.	Wood, in cords.	
85	Dollars. 3,800	Dollars. 41,091	Number. 16,850	1,800	2,507	7	6
158	146,161	43,843	-----	78,980	6,507	119	7
2,140	3,512,924	982,406	1,227,714	1,144,712	216,864	939	
415	578,199	152,437	100,442	299,855	46,809	250	8
20	28,020	11,477	84,300	-----	2,598	-----	9
1,774	2,158,226	928,681	-----	-----	229,339	-----	10
α 2,209	2,764,445	1,092,595	184,742	299,855	278,746	250	
630	466,564	132,077	32,169	174,685	12,270	-----	11
992	740,977	208,505	-----	302,095	19,787	-----	12
17	12,275	10,631	-----	-----	410	-----	13
7	-----	1,750	-----	-----	160	-----	14
1,616	1,219,816	352,963	32,169	476,780	32,567	-----	
35	58,340	9,371	178,490	-----	1,064	8	15
35	58,340	9,371	178,490	-----	1,064	8	

α In addition to the above there were 696 roustabouts employed on the Ohio river.

DELAWARE.

229	139,993	b 55,289	c 67,590	152,700	d 8,461	d 1,749	
137	80,762	35,948	67,000	119,700	4,490	1,700	1
24	21,429	6,270	-----	33,000	1,017	21	2
58	36,102	11,961	-----	-----	2,856	28	3
10	1,700	1,110	590	-----	98	-----	4

c One employé lost.

d Average of coal used, per ton of custom-house measurement, 1.44 tons; wood, 0.29 cord.

MARYLAND.

2,554	3,075,640	b 1,038,825	c 903,832	905,353	d 124,717	d 870	
862	695,954	318,500	4,386	347,950	23,338	-----	1
740	1,166,900	297,453	326,166	329,099	45,916	539	2
28	33,500	10,710	576,000	1,400	1,625	6	3
454	723,719	238,035	-----	316,904	23,827	174	4
405	451,667	167,437	-----	-----	28,928	141	5
33	(e)	-----	-----	-----	-----	-----	6
32	3,900	6,690	2,280	-----	1,085	10	7

c One passenger and one employé lost.

d Average of coal used, per ton of custom-house measurement, 2.71 tons; wood, 0.02 cord.

e Incomplete reports.

TABLE LXXXIX.—STEAM CRAFT—*Statement of the number, tonnage, value,*
DISTRICT OF COLUMBIA.

Class.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Total	34	6,945.77	Dollars. 595,000	Dollars. 832,960
1 Passenger	11	5,122.70	453,000	573,960
2 Freight	5	1,058.12	46,000	153,360
3 Towing	15	561.96	60,900	70,000
4 Yachts	3	203.59	35,700	35,700

a Average wages, \$350 68 per annum.

b One passenger and one employé lost.

TENNESSEE.

Total	<i>a</i> 61	11,348.40	580,000	<i>b</i> 708,500
1 Passenger	44	10,303.35	533,800	622,800
2 Freight	5	253.79	9,200	16,200
3 Towing	12	791.26	46,000	69,500

a In addition to the above there were 2 steamers, measuring 918.93 tons, in existence a part of the year 1880. Two steamers, measuring 111.00 tons, laid up, included in the above.

b In 15 leading lines: amount invested, \$466,800; number of boats, 30; tonnage, 7,702.17; length of routes, 4,252 miles.

ARKANSAS.

Total	37	5,046.75	227,400	270,300
1 Passenger	23	3,635.37	174,000	218,300
2 Ferry	8	1,015.87	41,600	38,500
3 Freight	4	164.48	6,000	7,500
4 Towing	2	31.03	5,800	6,000

a In addition to the above there were 173 roustabouts employed.

b Average wages, \$224 12 per annum, including officers, crew, and roustabouts.

MISSISSIPPI.

Total	<i>a</i> 40	3,657.20	204,450	242,150
1 Passenger	16	2,527.93	119,800	151,300
2 Ferry	3	208.80	33,200	33,200
3 Freight	6	432.34	12,200	14,700
4 Towing	15	488.13	39,250	42,950

a In addition to the above there was one steamer, measuring 22.29 tons, in existence a part of the year 1880.

b In addition to the above there were 73 roustabouts employed.

LOUISIANA.

Total	<i>a</i> 195	53,672.39	4,385,700	4,639,500
1 Ocean passenger	18	25,421.68	2,555,000	2,600,000
2 Inland passenger	52	18,166.99	1,120,000	1,273,200
3 Ferry	15	2,791.36	145,200	154,000
4 Freight	18	1,847.27	49,100	65,600
5 Towing	75	4,710.64	404,900	436,100
6 Miscellaneous	17	734.45	110,600	110,600

a Twelve steamers, measuring 1,204.74 tons, included in the above, were laid up; six steamers, measuring 1,163.08 tons, not included in the above, were in existence a part of the year 1880.

b In addition to the above there were 1,271 roustabouts employed.

capital invested, and traffic of the steam craft, by states: 1880—Continued.

DISTRICT OF COLUMBIA.

Crews (per-sons).	Gross earnings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
237	Dollars. 300, 576	Dollars. a 83, 100	Number. b 87, 009	63, 500	c 20, 739	c 125
128	186, 031	45, 910	87, 009	30, 000	12, 564	72
50	61, 445	13, 140	-----	24, 500	4, 125	20
52	53, 100	23, 000	-----	-----	3, 745	19
7	-----	1, 050	-----	-----	305	8
						4

c Average of coal used, per ton of custom-house measurement, 2.98 tons; wood, 0.02 cord.

TENNESSEE.

c 976	1, 035, 196	d 329, 329	e 76, 203	399, 565	f 75, 110	f 27, 573
884	922, 196	284, 229	76, 203	382, 925	68, 380	26, 443
31	60, 000	20, 000	-----	16, 640	1, 600	840
61	53, 000	25, 100	-----	-----	5, 150	290
						3

c In addition to the above there were 170 roustabouts employed.

d Average wages, \$285 13 per annum, including officers, crew, and roustabouts.

e One passenger lost.

f Average of coal used, per ton of custom-house measurement, 6.61 tons; wood, 2.43 cords.

ARKANSAS.

a 480	389, 671	b 146, 356	c 57, 979	82, 635	d 2, 835	d 31, 096
304	304, 756	117, 433	22, 879	67, 790	78	28, 917
51	74, 000	23, 023	35, 100	12, 500	2, 757	1, 129
116	6, 415	4, 000	-----	2, 345	-----	500
9	4, 500	1, 300	-----	-----	-----	650
						3
						4

c One employé lost.

d Average of coal used, per ton of custom-house measurement, 0.56 ton; wood, 6.16 cords.

MISSISSIPPI.

b 443	300, 149	c 233, 931	33, 131	93, 364	d 5, 764	d 10, 813
314	233, 439	213, 241	13, 891	90, 064	2, 732	10, 254
16	7, 000	3, 400	19, 240	-----	300	8
47	22, 160	10, 185	-----	3, 300	412	232
66	32, 550	12, 105	-----	-----	2, 320	319
						4

c Average wages, \$463 04 per annum, including officers, crews, and roustabouts.

d Average of coal used, per ton of custom-house measurement, 1.57 tons; wood, 2.95 cords.

LOUISIANA.

b 2, 574	4, 098, 816	c 1, 417, 318	d 1, 231, 577	970, 877	e 129, 336	e 42, 772
514	1, 654, 843	506, 405	13, 533	278, 469	28, 144	-----
1, 317	1, 750, 195	651, 421	99, 444	642, 273	65, 797	23, 792
114	174, 070	62, 950	1, 118, 600	-----	7, 613	1, 520
142	136, 110	47, 870	-----	59, 135	4, 420	5, 315
411	369, 398	133, 312	-----	-----	21, 300	11, 570
						5
76	7, 300	15, 360	-----	-----	1, 512	575
						6

c Average wages, \$368 74 per annum, including officers, crew, and roustabouts.

d One passenger and 22 employés lost.

e Average of coal used, per ton of custom-house measurement, 2.41 tons; wood, 0.70 cord.

TABLE LXXXIX.—STEAM CRAFT—*Statement of the number, tonnage, value,*

TEXAS.

Class.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Total	<i>a</i> 35	4,351.91	Dollars. 196,900	Dollars. 345,460
1 Passenger	14	2,765.60	76,500	154,000
2 Freight	6	1,123.45	79,000	86,500
3 Towing	12	441.60	39,900	103,466
4 Yachts	3	21.26	1,500	1,500

a One steamer, measuring 301.84 tons, not included in the above, was in existence a part of the year 1880.
b Seven employes lost.

ALABAMA.

Total	<i>a</i> 43	7,168.17	257,600	421,700
1 Passenger	21	5,283.56	178,500	316,000
2 Ferry	2	39.30	1,500	5,000
3 Freight	7	1,278.50	38,200	38,200
4 Towing	13	566.81	39,400	62,500

a Six steamers, measuring 1,972.48 tons, included in the above, were laid up; two steamers, measuring 46.62 tons, not included in the above, were in existence a part of the year 1880.
b Average wages, \$357 86 per annum, including officers, crews, and roustabouts.

FLORIDA.

Total	<i>a</i> 70	6,826.60	448,500	638,800
1 Ocean passenger	6	2,698.41	156,000	182,000
2 Inland passenger	24	2,624.70	140,400	283,800
3 Towing	24	1,405.05	133,000	152,700
4 Yachts	16	98.44	19,100	20,300

a Two steamers, measuring 115.15 tons, not included in the above, were in existence a part of the year 1880.
b Average wages, \$281 74 per annum, including officers, crews, and roustabouts.

VIRGINIA.

Total	<i>a</i> 89	6,251.02	494,400	526,350
1 Passenger	15	2,146.09	135,000	155,000
2 Ferry	5	1,078.84	67,500	67,500
3 Freight	15	1,113.29	54,500	66,750
4 Towing	48	1,871.10	232,800	232,200
5 Yachts	6	41.70	4,600	4,900

a Three steamers, measuring 178.65 tons, included in the above, laid up and no business reported.
b Average wages, \$382 20 per annum, including officers, crews, and roustabouts.

NORTH CAROLINA.

Total	<i>a</i> 52	3,850.86	205,700	231,900
1 Passenger	30	3,171.76	158,200	188,800
2 Freight	3	468.04	16,500	16,000
3 Towing	4	90.36	11,100	12,200
4 Fishing	15	130.70	19,900	14,900

a Five steamers, measuring 151.01 tons, laid up and business reported included in the above.
b Average wages, \$329 35 per annum, including officers, crews, and roustabouts.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

TEXAS.

Crews (per-sons).	Gross earn-ings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
b 350	Dollars. 336,456	Dollars. c 164,951	Number. 4,803	168,422	d 3,697	d 11,112
196	177,471	78,959	4,603	124,362	680	7,261
68	65,250	24,500	-----	44,010	1,460	1,390
80	93,035	59,592	-----	-----	1,557	2,191
6	700	1,900	200	50	-----	270

c Average wages, \$471.28 per annum, including officers, crew, and roustabouts.
d Average of coal used, per ton of custom-house measurement, 0.85 ton; wood, 2.55 cords.

ALABAMA.

702	497,465	b 251,220	c 51,237	184,187	d 240	d 38,528
589	338,730	210,328	36,237	151,062	50	28,203
6	12,000	1,300	15,000	1,200	100	200
42	8,300	2,644	-----	8,600	-----	2,050
65	78,435	36,948	-----	23,325	90	8,075

c Two passengers lost.
d Average of coal used, per ton of custom-house measurement, 0.03 ton; wood, 5.37 cords.

FLORIDA.

b 587	510,808	b 165,386	c 40,417	76,926	d 10,039	d 26,073
92	205,800	35,160	6,900	48,900	8,220	3,498
332	176,304	76,865	32,320	27,828	1,370	11,741
124	121,984	46,791	-----	-----	322	10,331
39	6,720	6,570	1,197	198	127	563

c One passenger and one employé lost.
d Average of coal used, per ton of custom-house measurement, 1.47 tons; wood, 3.81 cords.

VIRGINIA.

491	567,793	b 187,661	1,556,609	189,048	c 29,904	c 3,621
155	162,276	43,101	53,509	72,988	3,695	2,766
24	55,200	10,700	1,502,400	-----	5,350	-----
65	94,768	37,335	-----	66,060	5,368	578
235	254,949	94,315	-----	-----	15,419	274
12	600	2,210	700	-----	72	3

c Average of coal used, per ton of custom-house measurement, 4.78 tons; wood, 0.57 cord.

NORTH CAROLINA.

335	419,964	b 110,335	29,421	189,219	c 5,030	c 14,569
233	375,364	92,755	29,421	179,919	4,184	12,131
20	20,000	6,180	-----	9,300	650	175
15	9,500	6,020	-----	-----	60	1,975
67	15,100	5,380	-----	-----	136	288

c Average of coal used, per ton of custom-house measurement, 1.30 tons; wood, 3.78 cords.

TABLE LXXXIX.—STEAM CRAFT—*Statement of the number, tonnage, value,*
SOUTH CAROLINA.

	Class.	Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
	Total	<i>a</i> 41	5, 242. 10	<i>Dollars.</i> 242, 700	<i>Dollars.</i> 397, 850
1	Passenger	13	3, 268. 50	141, 800	235, 400
2	Ferry	3	435. 87	14, 500	30, 000
3	Freight	5	712. 36	17, 300	40, 150
4	Towing	18	750. 27	67, 800	101, 000
5	Yachts	2	15. 10	1, 300	1, 300

a Two steamers included in the above, measuring 48.15 tons, were laid up and no business reported.

b Average of wages, \$454 62 per annum, including officers, crews, and roustabouts.

GEORGIA.

	Total	<i>a</i> 44	13, 331. 46	1, 387, 300	1, 686, 500
1	Ocean passenger	5	9, 055. 31	1, 075, 000	1, 350, 000
2	Inland passenger	21	3, 398. 06	262, 500	233, 500
3	Towing	12	897. 98	46, 200	47, 200
4	Yachts	6	40. 11	3, 600	3, 800

a Three steamers, measuring 506.43 tons, laid up, included in the above.

b Average wages, \$658 21 per annum, including officers, crews, and roustabouts.

CALIFORNIA.

	Grand total	187	59, 030. 44	3, 792, 800	5, 946, 436
	UNITED STATES WATERS,				
1	Ocean passenger	<i>a</i> 21	18, 398. 86	1, 230, 000	1, 300, 485
2	Inland passenger	71	14, 523. 25	611, 400	1, 614, 268
3	Ferry	22	20, 398. 25	1, 353, 800	2, 051, 500
4	Freight	21	3, 301. 29	186, 300	891, 085
5	Towing	33	2, 297. 18	363, 600	540, 298
6	Yachts	11	59. 97	18, 900	19, 200
	Total	178	58, 828. 80	3, 763, 200	5, 916, 836
	STATE WATERS.				
7	Passenger	9	201. 64	20, 600	29, 600
	Total	9	201. 64	20, 600	29, 600

a Nine steamships, one tug, and one launch, measuring 26,323.45 tons, and valued at \$2,442,000, property of Pacific Mail Steamship Company, credited to New York.

b Three employes lost.

DAKOTA TERRITORY.

	Total	19	7, 591. 67	328, 000	382, 000
1	Passenger	17	7, 525. 86	321, 000	363, 000
2	Towing	2	65. 81	7, 000	19, 000

a In addition to the above there were 243 roustabouts employed.

b Average wages, \$240 91 per annum, including officers, crews, and roustabouts.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

SOUTH CAROLINA.

Crews (per-sons).	Gross earnings.	Paid for ser-vices.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
332	<i>Dollars.</i> 386,260	<i>Dollars.</i> 5150,936	<i>Number.</i> 135,604	97,264	c 7,889	c 19,657
169	181,065	79,020	17,168	71,298	4,549	11,729
39	43,830	16,144	118,435	9,048	-----	1,850
43	36,898	15,850	-----	16,920	-----	3,974
77	123,761	39,272	-----	-----	3,336	2,050
4	706	650	-----	-----	4	54

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c Average of coal used, per ton of custom-house measurement, 1.50 tons; wood, 3.74 cords.

GEORGIA.

494	1,091,430	b 325,157	34,701	114,030	c 22,045	c 15,831
190	819,890	217,655	8,815	68,630	18,435	-----
243	186,890	79,540	14,520	45,400	1,420	13,959
48	77,650	23,532	-----	-----	2,190	1,508
13	7,000	4,430	11,366	-----	-----	364

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c Average of coal used, per ton of custom-house measurement, 1.65 tons; wood, 1.18 cords.

CALIFORNIA.

b 1,987	4,020,024	c 1,164,200	6,317,452	1,570,056	d 137,349	d 14,323
649	1,018,833	291,326	8,289	249,583	22,757	12
680	911,221	328,452	132,361	350,257	33,144	10,009
262	1,102,363	207,146	6,168,852	724,711	52,304	755
210	625,621	182,838	-----	286,705	16,272	1,465
146	353,046	148,438	-----	-----	12,872	1,882
23	-----	-----	-----	-----	-----	-----
1,970	4,011,084	1,158,200	6,809,502	1,561,256	137,349	14,123
17	8,940	6,000	7,950	8,800	-----	200
17	8,940	6,000	7,950	8,800	-----	200

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c Average wages, \$585.90 per annum, including officers, crews, and roustabouts.

d Average of coal used, per ton of custom-house measurement, 2.32 tons; wood, 0.24 cord.

DAKOTA TERRITORY.

a 392	450,935	b 152,979	8,114	38,686	c 295	c 31,394
380	432,155	144,269	8,114	38,686	275	30,094
12	18,800	8,710	-----	-----	20	1,300

1
2

e Average of coal used, per ton of custom-house measurement, 0.03 ton; wood, 4.13 cords.

TABLE LXXXIX—STEAM CRAFT—*Statement of the number, tonnage, value,*
OREGON.

Class.		Number of steamers.	Tonnage.	Value of steamers.	Capital invested.
Total		89	31, 370. 94	<i>Dollars.</i> 2, 177, 000	<i>Dollars.</i> 2, 394, 754
1	Passenger	73	28, 759. 59	2, 021, 700	2, 230, 704
2	Ferry	5	1, 343. 40	52, 500	73, 000
3	Freight	2	200. 81	7, 000	6, 250
4	Towing	9	1, 067. 14	95, 800	84, 800

a Two employes lost.

b Average wages, \$764 69 per annum, including officers, crews, and roustabouts.

WASHINGTON TERRITORY.

Total		52	6, 805. 14	537, 300	542, 000
1	Passenger	31	5, 093. 51	351, 100	368, 300
2	Ferry	5	342. 34	23, 600	24, 600
3	Freight	5	115. 12	7, 400	7, 400
4	Towing	11	1, 254. 17	155, 200	142, 600

a Average wages, \$770 70 per annum, including officers and crews.

b One employe lost.

NEBRASKA.

Total		14	1, 193. 52	64, 300	87, 900
1	Ferry	12	1, 171. 52	63, 800	83, 500
2	Yachts	2	22. 00	500	4, 400

a Average wages, \$472 61 per annum, including officers, crews, and roustabouts.

b Includes 20,306 railroad transfers.

REMARKS.—In the foregoing tables this steamboat property has been assigned to the states where it was owned in 1880. In cases where the ownership was observed or divided the legal headquarters or the address of the managing owner was taken as authority for assigning the craft to a state, but very few of these perplexing cases were found. The Pacific Mail Steamship Company, owned in New York but operating lines from San Francisco, under this ruling was assigned to the state of New York.

capital invested, service, and traffic of the steam craft, by states: 1880—Continued.

OREGON.

Crews (per-sons).	Gross earnings.	Paid for services.	Passenger traffic.	Freight traffic, in tons.	FUEL USED.	
					Coal, in tons.	Wood, in cords.
<i>a</i> 788	<i>Dollars.</i> 1,983,703	<i>Dollars.</i> <i>b</i> 602,576	<i>Number.</i> 159,903	476,898	<i>c</i> 8,233	<i>c</i> 22,889
720	1,893,907	554,554	66,615	447,801	8,157	13,585
13	23,546	14,582	93,288	28,372	-----	1,788
8	7,500	3,780	-----	725	-----	487
47	58,750	29,660	-----	-----	76	7,031

c Average of coal used, per ton of custom-house measurement, 0.26 ton; wood, 0.73 cord.

WASHINGTON TERRITORY.

250	367,983	<i>a</i> 192,675	<i>b</i> \$135,307	49,139	<i>c</i> 825	<i>c</i> 66,434
167	239,860	132,870	93,487	39,961	300	42,984
9	26,133	8,345	41,820	6,310	-----	1,420
10	4,150	1,800	-----	2,868	75	280
64	97,840	49,660	-----	-----	450	21,740

c Average of coal used, per ton of custom-house measurement, 0.12 ton; wood, 0.76 cords.

NEBRASKA.

63	55,304	<i>a</i> 29,775	<i>b</i> 88,306	<i>c</i> 320,180	<i>d</i> 3,986	<i>d</i> 1,365
60	55,004	29,685	88,306	320,180	3,986	1,340
3	300	90	-----	-----	-----	25

c Includes 311,660 tons railroad transfer freight.

d Average of coal used, per ton of custom-house measurement, 3.34 tons; wood, 1.14 cords.

State interests are divided in many cases, in order to show the groupings. Lake Champlain is not classed with the northwestern lakes, as is usually the case, and the group of the Upper Missouri includes the Red River of the North, while in all the groups tributary streams are included. Group IV, for instance, represents the Ohio river and its tributaries.

TABLE XC.—Statement of the approximate number, tonnage, and value of the steamers,

Grand total for the United States of craft of all descriptions:

States and Territories.	STEAM.			SAIL.		
	No.	Tonnage.	Value.	No.	Tonnage.	Value.
Grand total.....	<i>a</i> 5,139	1,231,206.93	<i>Dollars.</i> 80,192,495	16,820	62,366,132.96	<i>Dollars.</i> c59,152,950
Total.....	515	120,177.83	8,038,150	5,600	940,988.62	23,524,650
1 Maine.....	112	16,991.66	1,135,700	2,556	491,348.45	12,283,700
2 New Hampshire.....	25	1,199.58	122,960	69	9,482.14	237,050
3 Vermont.....	12	2,259.26	221,300	17	937.86	23,425
4 Massachusetts.....	180	48,917.68	3,266,400	2,136	378,333.09	9,458,325
5 Rhode Island.....	70	21,486.52	1,539,650	241	16,587.91	414,675
6 Connecticut.....	116	29,323.13	1,752,200	641	44,299.17	1,107,475
Total.....	2,049	577,524.61	41,433,150	6,407	914,907.40	22,872,575
1 New York.....	<i>d</i> 1,230	358,444.50	25,708,650	2,984	623,680.97	15,592,600
2 New Jersey.....	175	43,688.10	2,401,150	906	58,122.85	1,453,050
3 Pennsylvania.....	416	116,601.11	8,479,300	655	137,199.80	3,429,975
4 Delaware.....	25	5,877.97	302,300	159	12,127.56	303,175
5 Maryland.....	169	45,967.16	3,886,750	1,645	81,855.77	2,046,375
6 District of Columbia.....	34	6,945.77	595,000	58	1,920.45	48,600
Total.....	859	151,501.09	10,252,750	2,801	126,078.05	3,151,825
1 Virginia.....	89	6,251.02	491,400	1,061	26,638.28	665,950
2 West Virginia.....	61	7,497.34	312,600	.....	.....	.....
3 North Carolina.....	52	3,850.76	205,700	289	9,157.87	228,925
4 South Carolina.....	41	5,242.10	242,700	173	5,017.46	125,425
5 Georgia.....	44	13,331.46	1,387,300	86	9,354.07	233,850
6 Florida.....	70	6,826.60	448,500	323	25,332.56	633,300
7 Alabama.....	43	7,168.17	257,600	73	7,936.83	198,400
8 Mississippi.....	40	3,657.20	204,450	119	2,969.90	74,225
9 Louisiana.....	195	53,872.39	4,385,700	447	31,958.49	798,950
10 Texas.....	35	4,351.91	196,900	230	7,712.50	192,800
11 Arkansas.....	37	5,616.75	227,400	.....	.....	.....
12 Kentucky.....	91	23,256.89	1,300,500	.....	.....	.....
13 Tennessee.....	61	11,948.40	589,000	.....	.....	.....
Total.....	1,838	274,796.88	13,961,345	1,200	235,758.48	5,893,925
1 Ohio.....	236	73,524.60	3,612,700	196	56,275.32	1,406,875
2 Indiana.....	51	7,744.80	399,000	.....	.....	.....
3 Illinois.....	171	22,646.12	1,226,800	275	66,528.27	1,663,200
4 Michigan.....	422	67,093.42	4,550,725	470	62,165.15	1,523,625
5 Wisconsin.....	177	19,249.04	1,020,400	253	50,800.11	1,270,000
6 Iowa.....	70	9,861.69	357,350	.....	.....	.....
7 Minnesota.....	61	5,118.52	273,270	.....	.....	.....
8 Missouri.....	167	60,873.50	2,698,800	1	49.63	1,225
9 Nebraska.....	14	1,193.52	64,300	.....	.....	.....
10 Dakota.....	19	7,501.67	328,000	.....	.....	.....
Total.....	328	97,206.52	6,507,100	752	148,400.41	3,709,975
1 Oregon.....	89	31,370.94	2,177,060	38	7,041.33	176,025
2 California.....	187	59,039.44	3,792,800	652	117,970.52	2,949,250
3 Arizona.....	.....	.....	.....	.....	.....	.....
4 Washington.....	52	6,805.14	537,200	62	23,388.56	584,700

a The excess of steam tonnage over that reported by the Register of the Treasury is due to the enumeration of state water interests and small yachts under five tons.

b There are ten vessels, measuring 125.07 tons, in Alaska not included but reported by the Register of the Treasury.

of the steamers, sailing-vessels, canal-boats, barges, flats, and wharf-boats of the United for 1880.

Number, 38,656; tonnage, 6,487,309.63; value, \$155,784,709.

CANAL.			BARGES.			FLATS.		
No.	Tonnage.	Value.	No.	Tonnage.	Value.	No.	Tonnage.	Value.
		<i>Dollars.</i>			<i>Dollars.</i>			<i>Dollars.</i>
8,771	1,253,688.23	8,273,255	5,033	1,331,562.88	6,430,464	2,702	220,690.47	1,286,020
16	1,372.00	21,500	108	14,144.94	194,689	29	970.00	8,425
12	1,000.00	20,000	3	648.92	8,000	3	300.00	225
4	372.00	1,500	32	5,040.71	56,384	23	570.00	7,400
			73	8,460.81	130,305	3	100.00	800
8,213	1,216,689.23	7,743,405	3,524	865,406.18	4,412,940	935	75,343.00	801,700
5,228	840,892.00	5,018,755	628	148,009.29	1,490,140	88	17,200.00	454,500
544	46,777.23	437,050	77	15,516.47	133,800	819	57,590.00	342,600
1,840	278,870.00	1,885,000	2,301	699,992.71	2,740,500	6	300.00	3,500
1	150.00	2,600	9	1,342.37	45,500	22	253.00	1,100
467	46,700.00	373,600	4	423.34	3,000			
33	3,300.00	26,400	5	122.00	500			
77	4,191.00	43,350	501	126,642.68	384,980	1,169	88,632.47	287,895
57	3,591.00	31,850	38	3,640.50	11,100	146	1,500.00	10,500
20	600.00	12,000	290	26,707.17	174,000	160	30,000.00	32,000
			1	50.64	800	144	8,940.00	36,800
			4	425.00	5,800	374	10,665.00	124,150
			6	400.00	3,000	50	2,405.00	19,355
			3	524.00	1,700	8	326.00	3,050
			36	2,689.81	22,000	6	3,648.00	5,000
			60	25,178.06	41,180	52	3,653.00	18,105
			19	2,927.50	23,000	4	90.00	2,500
			3	600.00	600	75	750.00	6,000
			102	60,000.00	96,000	150	26,645.47	30,375
			29	3,500.00	5,800			
465	31,436.00	465,000	702	302,369.28	1,323,875	467	52,805.00	161,000
361	21,660.00	361,000	165	58,153.51	114,600	238	36,930.00	61,225
104	9,776.00	104,000	14	1,287.22	12,000	38	2,910.00	9,800
			53	18,913.84	33,150	82	4,536.00	42,575
			124	30,056.43	93,225	30	5,000.00	25,000
			15	3,100.83	7,600	56	860.00	9,600
			33	6,050.18	4,000	23	2,569.00	12,800
			32	2,268.72	12,800			
			254	181,319.00	1,037,000			
			12	1,219.55	9,500			
			108	22,999.80	113,980	102	2,940.00	27,000
			12	7,616.60	9,600	88	1,976.00	17,000
			74	13,709.00	100,180	14	970.00	10,000
			4	554.20	1,600			
			18	1,120.00	2,600			

c Valuations by insurance experts on a basis of \$25 per ton, decimal omitted.
 d Including 18 cable boats on Erie canal.

TABLE XC.—Statement of the approximate number, tonnage, and value of the steamers, sailing-vessels, &c.—Continued.

Grand total for the United States of craft of all descriptions: Number, **38,656**; tonnage, **6,487,309.63**; value, **\$155,784,709.**

States and Territories.	WHARF-BOATS.			HULKS.		
	No.	Tonnage.	Value.	No.	Tonnage.	Value.
Grand total.....	145	86,390.00	Dollars. 385,100	49	7,638.16	Dollars. 64,425
Total				2	400.00	9,000
1 Maine						
2 New Hampshire						
3 Vermont						
4 Massachusetts				2	400.00	9,000
5 Rhode Island						
6 Connecticut						
Total	9	3,270.00	8,800	10	1,774.00	2,250
1 New York	1	110.00	1,500	4	344.00	250
2 New Jersey						
3 Pennsylvania	8	3,100.00	7,300	6	1,430.00	2,000
4 Delaware						
5 Maryland						
6 District of Columbia						
Total	48	29,400.00	108,450	26	3,900.16	40,050
1 Virginia				10	150.00	50
2 West Virginia	14	8,400.00	20,600			
3 North Carolina						
4 South Carolina						
5 Georgia						
6 Florida						
7 Alabama						
8 Mississippi	1	1,000.00	5,000			
9 Louisiana	7	5,400.00	15,000	6	1,750.16	37,000
10 Texas						
11 Arkansas						
12 Kentucky	26	14,600.00	67,850	10	2,000.00	3,000
13 Tennessee						
Total	79	51,020.00	263,750	8	1,564.00	13,125
1 Ohio	25	12,550.00	99,200	2	300.00	200
2 Indiana	22	12,000.00	53,150			
3 Illinois	13	7,720.00	38,500			
4 Michigan				6	1,264.00	12,925
5 Wisconsin						
6 Iowa	3	1,500.00	3,900			
7 Minnesota						
8 Missouri	16	17,250.00	69,000			
9 Nebraska						
10 Dakota						
Total	9	2,700.00	4,100			
1 Oregon	9	2,700.00	4,100			
2 California						
3 Arizona						
4 Washington						

TABLE XCI.—STEAM CRAFT—*Statement of the number and tonnage of steam vessels of the United States navy, revenue marine, light-house board, quartermaster's department, &c.*

(Official Record, 1881.)

	Number.	Tonnage.
United States Navy, naval steamers.....	66	83,958.00
iron-clad steamers	24	24,254.00
torpedo rams	2	749.00
tugs.....	25	4,129.00
		113,090.00
Revenue marine	31	6,765.00
Engineer department	58	7,558.96
Light-house board	23	7,076.00
Quartermaster's department	15	1,025.23
United States coast and geodetic survey (a)	10	1,218.00
Mississippi river commission.....	2	90.00
United States commission of fish and fisheries (a)	7	1,204.00
Marine hospital service (a).....	1	88.33
Total	264	138,115.52

a Not reported in Official Record.

b Three steamers and four launches.

REMARKS.—Adding to the above 264 steamers, measuring 138,115.52 tons, the 5,139 steamers of the steam merchant marine, measuring 1,221,206.93 tons, and we have a grand total of 5,403 steamers, measuring 1,359,322.45 tons, representing the entire steam navigation interests of the United States.

Adding to the total merchant tonnage of the United States, as shown in Table XC, amounting to 38,656 crafts, measuring 6,487,309.63 tons, 312 crafts, measuring 167,687.52 tons, owned by the United States government, and we have of marine property in this country a grand total approximating 38,968 crafts, measuring 6,654,997.15 tons.

CANALS.

TABLE XCII.—Statement of the canals operated by

[Canals in *italics* operated by states. See notes to italic reference marks on pages 1306-1307.]

	Canals.	When built.	LENGTH.		WIDTH.		Depth.	LOCKS.			
			Canal.	Slack water.	Surface.	Bottom.		Number.	Length.	Width.	Rise and fall.
UNITED STATES.											
	Grand total.....		2,515.04	411.14							
NEW YORK.											
	Total.....		607.75	115.09							
1	<i>Erie canal, branches and feeders.</i>	1817-1862	365.48	29.59	70	52½	7	72	110	18	656.46
2	<i>Oswego canal</i>	1825-1862	18.00	20.00	70	56	7	18	110	18	155.55
3	<i>Cayuga and Seneca canal.</i>	1825	24.77		70	56	7	11	110	18	76.58
4	<i>Champlain canal, feeder and dam.</i>	1817-1837	81.00		58	44	6	33	110	18	179.50
5	<i>Black River canal and improvement.</i>	1836-1861	35.50	42.50	42	28	4	110	90	15	1,080.00
6	<i>Oneida River improvement</i>	1823-1850		20.00	80	60	4½	2	120	30½	6.00
7	Delaware and Hudson Canal Company.	1826-1828	b 83.00	3.00	48	32	6	c 107	100	15	1,028.00
NEW JERSEY.											
	Total.....		171.02								
1	Delaware and Raritan Canal Company (ship).	1824-1833	44.00		80		7	14	220	24	150.00
2	Delaware and Raritan feeder.	1828	22.00		60		6	1	100	24	
3	Morris Canal and Banking Company.	1823-1845	103.00		45	25	5	e 46	88	20	1,674.00
4	Penn's Neck canal (ship) f	1800-1872	2.02		100	75	5				
PENNSYLVANIA.											
	Total.....		628.57	146.05							
1	Pennsylvania Canal Company, east division.	1826-1834	46.00		50-100	32	6	15	180	17	122.00
2	Pennsylvania Canal Company, Susquehanna division.	1823-1833	41.00	3.00	50-100	32	6	9	180	17	68.00
3	Pennsylvania Canal Company, north division.	1830	g 64.00	4.00	50-100	32	6	7	180	17	68.00
4	Pennsylvania Canal Company, Juniata division.	1827-1834	90.00		40-60	25	4½	36	85	14-17	255.00
5	Pennsylvania Canal Company, west branch.	1823-1823	08.00	4.00	40-60	28	4½	18	90	17	123.00
6	Pennsylvania Canal Company, Wiconisco branch.	1823-1839	13.00		40-60	25	4½	6	90	17	32.00
7	Susquehanna and Tidewater Canal Companies.	1827-1830	h 30.00		50	30	5½	43	170	17	230.00
8	Union Canal Company...	1819-1827	84.64		43	28	4½	93	90	17	501.00
9	Schuylkill Navigation Company.	1816-1826	58.18	50.05	45		6½	71	110	18	619.00

CANALS.

states and corporations in the United States: 1880.

[Canals in *italics* operated by states. See notes to italic reference marks on pages 1306-1307.]

Cost of construction.	Freight traffic.	Gross income.	Total expenditures.	Points connected.
<i>Dollars.</i> a 170,028,636	<i>Tons.</i> 21,044,292	<i>Dollars.</i> 4,538,620	<i>Dollars.</i> 2,954,156	
68,229,410	7,766,969	1,239,448	1,099,974	
51,609,200	4,608,651	1,120,691	678,124	Albany—Buffalo 1
3,077,429	427,869	14,388	37,877	Syracuse—Oswego 2
1,520,542	125,231	1,532	11,788	Montezuma—Cayuga and Seneca lakes 3
2,378,910	1,200,503	51,267	136,520	Whitehall—Waterford 4
3,224,779	75,308	11,800	51,393	Rome—Carthage 5
79,346	.....	270	.....	Three River Point—Brewerton 6
6,339,210	1,329,313	d 39,500	184,272	Honesdale, Pa.—Rondout, N. Y. 7
10,776,353	1,857,568	635,108	491,762	
4,735,353	1,348,082	419,431	331,344	New Brunswick—Bordentown 1
.....	.....	.....	.....	Bull's Island—Trenton 2
6,000,000	503,486	215,677	160,418	Easton, Pa.—Jersey City 3
41,000	6,000	.....	.....	Salem creek—Delaware river 4
37,706,645	6,037,935	1,562,018	588,024	
7,731,750	861,798	368,770	177,826	Columbia—Duncan's island 1
.....	.....	.....	.....	Clark's Ferry—Northumberland 2
.....	.....	.....	.....	Northumberland—Wilkesbarre 3
.....	.....	.....	.....	Junction—Huntingdon 4
.....	.....	.....	.....	Northumberland—Flemington 5
.....	.....	.....	.....	Clark's Ferry—Millersburg 6
4,930,705	362,295	155,260	35,979	Columbia—Maryland state line 7
5,907,850	29,853	26,997	22,496	Middletown—Reading 8
12,580,461	630,416	j 573,133	169,952	Mill Creek—Philadelphia 9

TABLE XCH.—CANALS—Statement of the canals operated by states

	Canals.	When built.	LENGTH.		WIDTH.		Depth.	LOCKS.			
			Canal.	Slack water.	Surface.	Bottom.		Number.	Length.	Width.	Rise and fall.
	PENNSYLVANIA—cont'd.										
10	Lehigh Coal and Navigation Company.	1819-1821	<i>Miles.</i> 48.00	<i>Miles.</i>	<i>Ft.</i> 60	<i>Ft.</i> 45	<i>Ft.</i> 6	57	100	22	375.00
11	Delaware Division canal.	1830	60.00	.....	44	26	6	33	90	11-22	165.00
12	Monongahela Navigation Company.	1844	.....	85.00	.....	.....	5-8	190	56	.....	61.00
13	Muncy Canal Company.	.....	0.75	.....	40	25	4½	.....	.....	.....	.....
14	Delaware and Hudson Canal Company—see New York.	1826-1828	25.00	.....	.....	.....	.....	.....	.....	.....	.....
	DELAWARE.										
	Total .....	.....	14.00	.....	.....	.....	.....	.....	.....	.....	.....
1	Chesapeake and Delaware Canal Company (ship).	.....	14.00	.....	06	.....	9	3	220	24	32.00
	MARYLAND.										
	Total .....	.....	194.50	5.00	.....	.....	.....	.....	.....	.....	.....
1	Chesapeake and Ohio Canal Company.	1825-1850	179.50	5.00	50-60	40	6	75	100	16	609.00
2	Susquehanna and Tidewater Canal Company—see Pennsylvania.	1839	15.00	.....	.....	.....	.....	.....	.....	.....	.....
	VIRGINIA.										
	Total .....	.....	443.56	31.00	.....	.....	.....	.....	.....	.....	.....
1	Albemarle and Chesapeake Canal Company (ship).	1855-1861	78.44	30.00	80	60	7½	1	220	40	2.00
2	Dismal Swamp Canal Company (ship).	1794	28.00	1.00	40-60	.....	6	7	100	16½	35.00
3	Alexandria and Georgetown canal.	1830	7.12	.....	60	42	6	4	100	18	66.00
	NORTH CAROLINA.										
	Total .....	.....	13.00	.....	.....	.....	.....	.....	.....	.....	.....
1	Albemarle and Chesapeake (North Carolina cut)—see Virginia (ship).	1855	5.50	.....	80	.....	7½	.....	.....	.....	.....
2	Fairfield Canal and Turnpike Company.	1868	4.50	.....	40	.....	6	.....	.....	.....	.....
3	New Berne and Beaufort Canal Company (ship).	1880-1882	3.00	.....	80	.....	10	.....	.....	.....	.....
	GEORGIA.										
	Total .....	.....	25.00	.....	.....	.....	.....	.....	.....	.....	.....
1	Augusta canal (ship) (g).	1847	9.00	.....	150	.....	11	.....	.....	.....	.....
2	Ogeechee Canal Company	1820-1840	16.00	.....	120	.....	3	5	.....	.....	.....
	FLORIDA.										
	Total .....	.....	10.50	.....	.....	.....	.....	.....	.....	.....	.....
1	Santa Fe Canal Company.	1877-1880	10.50	.....	35	.....	5	.....	.....	.....	.....

and corporations in the United States: 1880—Continued.

Cost of construction.	Freight traffic.	Gross income.	Total expenditures.	Points connected.
<i>Dollars.</i> 3,000,000	<i>Tons.</i> 719,338	<i>Dollars.</i> 187,520	<i>Dollars.</i> 78,864	Coalport—Easton..... 10
2,433,350	3,450,400	113,334	43,313	Easton—Bristol..... 11
1,115,452		236,929	59,585	Pittsburgh—Geneva..... 12
7,077	3,835	75	19	Muncy—Pennsylvania canal..... 13
----- 14				
3,730,230	959,146	201,783	62,245	
3,730,230	959,146	201,783	62,245	Delaware City—Chesapeake City..... 1
11,290,327	655,423	372,616	227,277	
11,290,327	655,423	372,616	227,277	Washington, D. C.—Cumberland, Md..... 1
----- 2				
4,042,363	522,662	104,048	71,632	
1,641,363	400,000	86,138	56,432	Norfolk—Currituck..... 1
1,151,000	76,731	13,524	6,000	Elizabeth river—Pasquotank..... 2
1,250,000	125,931	4,386	29,200	West Washington, D. C.—Alexandria..... 3
300,000	40,000	8,000	3,000	
----- 1				
100,000	40,000	8,000	3,000	Coanjock bay—North river..... 1
200,000	(p)			Alligator river—Mattamuskeet lake..... 2
----- 3				
1,907,818	23,602	8,209	14,362	
1,500,000	2,697	7909	7,382	Savannah river—Augusta..... 1
407,818	20,905	7,300	6,980	Savannah river—Ogeechee river..... 2
70,000				
70,000	(p)			Waldo—Melrose..... 1

TABLE XCII.—CANALS—Statement of the canals operated by states

Canals.	When built.	LENGTH.		WIDTH.		Depth.	LOCKS.			
		Canal.	Slack water.	Surface.	Bottom.		Number.	Length.	Width.	Rise and fall.
LOUISIANA.										
Total		Miles.	Miles.	Ft.	Ft.	Ft.		Ft.	Ft.	Ft.
1 Carondelet Canal and Navigation Company (old canal) (ship).....	1794	2.00	.....	60	.....	7				
2 Orleans bank canal (new canal) (ship).....	1832-1835	6.50	.....	85	.....	7				
3 Harvey's canal (ship).....	1830	5.75	.....	45	.....	6	3	200	35	.....
4 Company's canal (ship).....	1847	3.00	9.00	40	.....	6	1			.....
5 Tagliaferrero canal (ship).....	1880-1881	1.75	.....	30	.....	4	2	110	20	.....
TEXAS.										
Total		8.00	30.00							
1 Galveston and Brazos Navigation Company (ship).....	1850-1851	8.00	30.00	50	.....	3½				
ILLINOIS.										
Total		102.00	.....						
1 Illinois and Michigan canal (ship).....	1836-1848	102.00	.....	60	.....	6	15	110	18	141.00
MICHIGAN.										
Total		3.14	.....						
1 Saint Mary's Falls canal (ship).....	1853-1855	1.02	.....	100	.....	17	1	515	80	18.00
2 Lake Superior Ship Canal, Railway and Iron Company.....	1868-1873	2.12	.....	100	.....	14				
OHIO.										
Total		674.25	75.00							
1 Ohio canal and feeders.....	1835	323.00	.....	40	26	4	150	90	15	1,207.00
2 Wauhatchie branch.....	1843	25.00	.....	40	.....	4	11	90	15	90.00
3 Hocking canal.....	1843	42.00	.....	40	.....	4	26	87	15	203.00
4 Miami and Erie canal, branch, and feeders.....	1835	284.25	.....	50-60	.....	5½	93	87-99	15	907.00
5 Muskingum improvement.....	1840	.....	75.00				12			126.00
OREGON.										
Total		0.75	.....						
1 Willamette Transportation and Locks Company (ship).....	1873	0.75	.....	40	.....	5	5	210	40	39.75

a Cost per mile of operating canals and slack water in the United States, \$58,756, exclusive of Galveston and Brazos; including this canal, \$58,109.

b Exclusive of 25 miles in Pennsylvania.

c 107 lift locks, 2 weir locks, 2 stop locks, and 2 guard locks.

d Miscellaneous freight earnings only; the canal is used in transporting coal for the company.

e Consisting of 23 inclined planes and 23 lift locks.

f "Salem Creek Consolidated Meadow Company."

g Now extending from Northumberland to Nanticoke, 60 miles.

h Exclusive of 15 miles in Maryland.

i Amount paid for rent of canal, \$243,860.

j Amount paid for rent of canal, \$417,645.

k Jericho canal, a lumber canal 10 miles in length, not included.

l Exclusive of 5.50 miles in North Carolina.

m Seven months under repairs in 1880; freight movement in 1881, 105,000 tons.

and corporations in the United States: 1880—Continued.

Cost of construction.	Freight traffic.	Gross income.	Total expenditures.	Points connected.	
<i>Dollars.</i>	<i>Tons.</i>	<i>Dollars.</i>	<i>Dollars.</i>		
2,030,000	318,096	27,840	13,650		
\$750,000	140,988	.....	.....	New Orleans—Bayou Saint John 1
1,000,000	177,108	20,340	13,650	New Orleans—Pontchartrain lake 2	
150,000	.....	.....	.....	..... 3
90,000	.....	7,500	.....	Mississippi river—Lake Salvador 4
40,000	(<i>p</i>)	.....	.....	Mississippi river—Bayou Barataria 5
340,000	.....	4,535	3,454	
340,000	.....	4,535	3,454	Galveston—Brazos river 1
6,557,681	751,360	107,605	125,601		
\$6,557,681	751,360	107,605	125,601	Chicago—La Salle 1	
7,425,300	1,244,279	52,519	20,532		
3,500,000	1,244,279	44,743	23,437	Saint Mary's falls—Saint Mary's river 1	
3,925,300	.....	7,776	6,095	Koweenaw bay—Portage lake 2
\$15,022,503	\$837,252	214,891	223,643		
4,695,202	429,626	77,545	223,643	Cleveland—Portsmouth 1	
607,369	3,209	3,389			Rochester, Ohio—Roscoe 2
947,670	35,290	3,470			Carroll—Nelsonville 3
7,144,234	323,737	111,260			Cincinnati—Toledo 4
1,628,028	45,290	3,236			Zanesville—Marietta 5
600,000	.....	.....	.....
600,000	(<i>q</i>)	.....	.....	Oregon City 1

n Includes repairs to aqueduct, \$6,200.
o The following drainage and lumber canals not included: Riddick, Orapeak, Collins, Pungo, and Mattamuskeet—total length, 40 miles.
p Not completed and no traffic reported.
q Owned by the city of Augusta.
r Wharf rents, \$909; water rents, \$20,000. The canal is free.
s Built by Governor Carondelet in 1794, with the aid of a large force of slaves contributed by residents.
t Cost up to 1870, the date of last report.
u In addition to above, 45,590,000 feet of lumber, 5,329,000 shingles, 1,139,000 lath, and 185,000 cubic feet of timber, approximating 148,000 tons, and also 25,786 passengers, passed through the canal in 1880.
v A statement made to the legislature in 1846 increases this amount \$343,464.
w Includes movement of forest products and stone, amounting to 350,274 tons.
x Clearances only.
y Freight traffic in 1874, 32,340 tons, and 6,383 passengers.

TABLE XCIII.—CANALS—Statement of the length and recorded cost of construction of all the important abandoned canals in the United States.

Names of canals.	When built.	When abandoned.	Length.		Points connected.
			Miles.	Dollars.	
Grand total United States.....			1,953.56	44,013,160	
MAINE.					
Total.....			20.50	200,000	
Cumberland and Oxford.....	1820-1827	1875	20.50	200,000	Portland—Sebago pond.
NEW HAMPSHIRE.					
Total.....			5.13	142,000	
Bow Falls.....	1812		0.75	25,000	Around falls of the Merrimac.
Hooksett Falls.....		1850	0.13	17,000	Around falls of the Merrimac.
Amoskeag Falls.....			1.00	50,000	Around falls of the Merrimac.
Union.....			3.00	50,000	Around falls of the Merrimac.
Sewall's Falls.....	1837		0.25		Around falls of the Merrimac.
VERMONT.					
Total.....			1.06		
White River.....			0.50		Around falls of the Connecticut.
Waterquehoy.....			0.40		Around falls of the Connecticut.
Bellows Falls.....		1805	0.16		Around falls of the Connecticut.
MASSACHUSETTS.					
Total.....			33.65	655,000	
Middlesex.....	1804	1853	27.00	605,000	Chelmsford (Lowell)—Charlest'n.
Pawtucket.....	1834		1.65	50,000	Lowell. [ticut river.
Montague.....			3.00		Around Montague falls, Connecti-
South Hadley.....			2.00		South Hadley falls, Connecticut
RHODE ISLAND.					
Total.....			45.00	750,000	
Blackstone.....	1824-1828	1848	45.00	750,000	Providence—Worcester.
CONNECTICUT.					
Total.....			83.50	827,000	
Farmington (a).....	1825	1847	55.00	5 600,000	New Haven—Suffield.
Hampshire and Hampden (a).....	1826-1831	1847	22.00	5 227,000	Southwick—Northampton.
Enfield Falls.....			5.50		Around Enfield falls, Connecti-
GEORGIA.					
Total.....			12.00	500,000	
Brunswick.....	1837-1842	1860	12.00	500,000	Brunswick harbor—Altamaha
VIRGINIA.					
Total.....			196.50	6,139,280	
James River and Kanawha....	1785-1851	1880	196.50	6,139,280	Richmond—Buchanan.
NEW YORK.					
Total.....			356.66	10,235,314	
Chenango.....	1832-1837	1878	128.17	2,782,124	Utica—Binghamton.
Chenango extension.....	1832-1837	1878	40.00		Binghamton—state line of Pa.
Crooked Lake.....	1830-1833	1874	7.69	23,287	Dresden—Penn Yan.

a New Haven and Northampton Company.

b Total amount expended on canals to date of abandonment, \$1,478,425 10, less value of property \$389,000, leaving \$1,089,425 10 loss.

c Including work done on the whole line—Richmond to Kanawha river, \$10,436,869.

TABLE XCIII.—CANALS—Statement of the length and recorded cost of construction of all abandoned canals, &c.—Continued.

Names of canals.	When built.	When abandoned.	Length.	Cost of construction.	Points connected.
NEW YORK—continued.					
Chemung.....	1830-1833	1878	<i>Miles.</i> 28.00	<i>Dollars.</i> 1,273,261	Head of Seneca lake—Elmira.
Feeder.....			16.75		Horseheads—Knorville.
Genesee Valley.....	1837-1840	1878	107.00		{ Rochester—Olean.
Dansville branch.....	1840	1878	11.00	} 5,827,813	{ Shakers—Dansville.
Millgrove extension.....	1857-1861	1878	6.75		{ Olean—Millgrove.
Junction.....	1859		11.00	240,000	Elmira—Pennsylvania state line.
Oneida Lake (a).....	1832-1836		5.80	78,829	Oneida lake—South bay.
PENNSYLVANIA.					
Total.....			477.00	12,745,780	
Pennsylvania and New York Canal and Railroad Company.....	1836-1850	1872	102.75	1,000,000	Wilkesbarre—Athens.
Pennsylvania Canal Company, Juniata division (part).....	1830	1874	37.00		Huntingdon—Holidaysburgh.
Pennsylvania Canal Company, western division.....	1830	1863	104.25	3,173,432	Johnstown—Pittsburgh.
Lehigh Coal and Navigation Company (part).....	1838	1862	36.00	1,455,000	Coalport—Stoddardsville.
Union Canal branch (part).....	1828-1832	1862	11.00	684,057	Union Forge—Pine Grove.
Eric and branches.....	1840-1844	1871	161.00	6,433,291	Bridgewater—Erie.
Bald Eagle and Spring Creek Navigation Company.....	1835	1865	25.00		Bald Eagle creek—Bellefonte.
OHIO.					
Total.....			205.00	3,217,552	
Sandy and Beaver.....	1834-1846	1852	84.00	2,000,000	Bolivar, Ohio—Smith's Ferry.
Pennsylvania and Ohio Athens branch (part).....			87.00	1,000,000	Akron—Pennsylvania state line.
Lebanon branch.....			14.00		Nelsonville—Athens.
			20.00	217,552	Middletown—Lebanon.
INDIANA.					
Total.....			453.00	7,725,262	
Wabash and Erie.....	1832-1851		379.00	6,325,262	Evansville, Ind.—Ohio state line.
Whitewater.....			74.00	1,400,000	Lawrenceburg—Cambridge City.
NORTH CAROLINA.					
Total.....			12.00		
Weldon.....	1829		12.00		Roanoke river.
SOUTH CAROLINA.					
Total.....			51.35	850,000	
Santee.....	1802		22.00	720,000	Charleston harbor—Santee river.
Winyaw.....			7.40		Winyaw bay—Kinlock creek.
Catawba.....			6.50		
Wateree.....	1826		4.00		Jones' mills—Ellicott's mills.
Saluda or Columbia.....			6.20		Head of Saluda shoals—Granby Ferry (Congaree river).
Drehr's.....			1.50		Around falls of Saluda river.
Lorick's.....			1.00		Broad river.
Lockhart's.....	1818-1825	1852	2.75	130,000	Broad river.
DISTRICT OF COLUMBIA.					
Total.....			1.21	25,978	
Washington Branch canal.....			1.21	25,978	Potomac—Eastern Branch.

a Virtually abandoned.

b Original cost, \$420,000.

c Stocks chargeable to Wabash and Erie canal to 1851. (History of State Debts, Tenth Census.)

d The District issued stock to the amount of \$50,000 in 1831 for the purchase of the canal, and later issued stock to the amount of \$137,050 for completing and enlarging the canal.

TELEGRAPHS.

TABLE XCIV.—General financial exhibit for the year : 1880.

No.	Name of company.	Date of close of fiscal year.	RECEIPTS.		
			From mes- sages sent.	From other sources.	Total.
			<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
Total.....			13,512,116 17	3,184,507 21	16,696,623 38
1	Alabama and Great Southern.....	May 31, 1880	3,059 79	.....	3,059 79
2	Altamaha.....	Apr. 1, 1880	1,800 00	.....	1,800 00
3	American Rapid (a).....	June 1, 1880	.....	.....	.....
4	Atlantic and Pacific.....	Dec. 31, 1879	432,900 54	998,702 52	1,431,603 06
5	Ashtabula and Pittsburgh.....	May 31, 1880	541 08	.....	541 08
6	American.....	Dec. 31, 1879	1,582 02	.....	1,582 02
7	Baltimore and Ohio.....	Sept. 30, 1880	.....	90,173 15	90,173 15
8	Burlington and Missouri River.....	Dec. 31, 1879	11,158 25	.....	11,158 25
9	Bryant's Pond and Andover.....	Oct. 18, 1880	79 67	.....	79 67
10	Bar Harbor and Mount Desert.....	— —, 1880	2,262 68	.....	2,262 68
11	Bayou Sara and Woodville.....	Sept. 1, 1880	973 66	1,144 53	2,118 19
12	Columbia and Greenville.....	Dec. 31, 1879	2,990 96	1,450 42	4,441 38
13	Central District and Printing.....	Apr. 30, 1880	.....	58,697 48	58,697 48
14	Cincinnati and Eastern.....	June 1, 1880	1,081 41	7 77	1,089 18
15	Chester and Derry.....	Aug. 1, 1880	70 00	.....	70 00
16	Connecticut River.....	May 31, 1880	5,000 00	.....	5,000 00
17	Cohasa Lake and Mendocino.....	Jan. 31, 1880	4,504 00	130 00	4,634 00
18	Camden.....	June 30, 1880	900 00	.....	900 00
19	Deseret.....	Dec. 31, 1879	28,549 43	1,293 88	29,843 31
20	Ellsworth and Deer Island.....	June 30, 1880	2,446 09	120 00	2,566 09
21	Ellsworth and Fremont.....	.....	362 78	90 00	452 78
22	Fayetteville and Lumberton.....	Dec. —, 1879	1,386 02	.....	1,386 02
23	Fountain City and Alma.....	.....	900 00	.....	900 00
24	Frontier (b).....	Oct. 31, 1880	3,109 98	.....	3,109 98
25	Georgetown and Kingston (c).....	— —, 1880	.....	.....	.....
26	Huntingdon and Broad Top Mount'n.....	Dec. 31, 1879	359 77	.....	359 77
27	Harrington and Jonesport.....	July 31, 1880	255 75	.....	255 75
28	Homer and Minden.....	June 1, 1880	843 06	.....	843 06
29	International Ocean.....	June 31, 1880	318,369 92	5,787 55	324,157 47
30	Little Rock and Fort Smith.....	Dec. 31, 1880	6,165 23	.....	6,165 23
31	Lehigh.....	Dec. 31, 1880	2,774 00	8,013 69	10,787 69
32	Lake Mohonk.....	Dec. 31, 1879	429 00	.....	429 00
33	Lake Superior and Mineral Range.....	Dec. 31, 1880	4,657 01	637 76	5,294 77
34	Montezuma.....	Apr. 30, 1880	1,296 77	.....	1,296 77
35	Middletown.....	Jan. 1, 1880	95 35	.....	95 35
36	Mineral Point and Dodgeville.....	May 31, 1880	195 00	74 00	269 00
37	Montana Central.....	July 10, 1880	6,233 48	900 00	7,133 48
38	Marine.....	Aug. 1, 1880	258 67	.....	258 67
39	Millbridge and Cherryfield.....	Dec. 31, 1879	267 16	.....	267 16
40	Northwestern.....	Dec. 31, 1879	359,866 39	13,822 76	373,629 15
41	Northwestern Ohio.....	May 31, 1880	918 47	.....	918 47
42	Paducah and Elizabethtown.....	July 31, 1880	1,765 74	.....	1,765 74
43	Providence and Pascoag.....	June 30, 1880	645 00	1,055 00	1,700 00
44	Pensacola.....	July 31, 1880	4,233 98	.....	4,233 98
45	Philadelphia Local.....	Feb. —, 1880	161,012 23	62,761 51	223,773 79
46	Philadelphia, Reading and Pottsville.....	Nov. 30, 1880	60,934 35	16,381 34	77,315 69
47	Pee Dee.....	Sept. 30, 1880	1,047 37	.....	1,047 37
48	Poughkeepsie, Hartford and Boston.....	Oct. 1, 1880	85 23	.....	85 23
49	Runford Falls and Buckfield.....	May 31, 1880	228 51	.....	228 51
50	Vermont International.....	Dec. 31, 1879	1,220 85	1,450 61	2,671 46

* Lines not in operation. b Six months. c Company does not make any financial report.

TELEGRAPHS.

TABLE XCIV.—General financial exhibit for the year : 1880.

EXPENSES.					Net receipts.	
Salaries.	General expenses.	Repairs.	All other expenses.	Total.		
<i>Dollars.</i> 4, 886, 128 14	<i>Dollars.</i> 2, 800, 158 81	<i>Dollars.</i> 1, 045, 880 11	<i>Dollars.</i> 1, 486, 113 94	<i>Dollars.</i> d 10, 218, 281 00	<i>Dollars.</i> 6, 573, 843 04	
1, 320 00	3, 773 83	1, 860 47	236 08	5, 870 38	420 00	1
232, 705 99	593, 318 55	70, 170 89	8, 740 50	904, 935 93	526, 667 13	2
3, 109 28	188 20	267 00		3, 564 48		3
786 15		244 57	143 73	1, 174 45	407 57	4
125, 086 24	9, 083 08	27, 387 91		161, 557 23		5
	10, 790 61			10, 790 61	367 74	6
	79 67			79 67		7
451 00	31 26	50 84	132 36	665 46	1, 597 20	8
1, 200 00	124 00	150 00		1, 474 00	644 19	9
	6, 705 86			6, 705 86		10
2, 850 00	34, 723 85	4, 500 50	7, 208 93	49, 282 78	9, 414 70	11
60 00	89 83		475 71	625 54	463 64	12
10 00	5 00	5 00		20 00	50 00	13
3, 500 00	500 09	300 00		4, 300 00	700 00	14
1, 588 00	687 00	682 00	760 00	3, 717 00	977 00	15
25 00	25 00	150 00		300 00	700 00	16
17, 320 67	4, 694 82	4, 975 04	965 80	27, 956 33	1, 886 98	17
416 50	1, 569 52			1, 926 02	640 67	18
220 00	25 00	12 00		257 00	195 78	19
701 20		72 25	482 57	1, 256 02	130 06	20
600 00	50 00			650 00	250 00	21
1, 429 23	175 18	105 45		1, 709 86	1, 400 12	22
						23
2, 482 68	119 72	33 47		2, 635 87		24
127 87	48 18	5 75		181 80	73 95	25
120 00		57 00	85 00	262 00	551 00	26
33, 758 12	12, 401 64	17, 089 91	36, 683 07	104, 932 74	219, 164 73	27
4, 721 50		605 09	281 98	5, 668 57	556 66	28
						29
642 20	645 51	43 25	497 59	1, 833 55	8, 954 14	30
100 00	94 00			194 00	295 00	31
1, 940 00	547 42	466 80		2, 954 22	2, 340 55	32
763 98	126 64	66 15	2 55	953 32	343 45	33
36 00	19 37	16 98		72 35	23 60	34
						35
250 00	5 00	8 60	6 00	269 60		36
2, 100 00	420 00	250 00	200 00	2, 970 00	4, 163 48	37
64 67	5 00		129 34	169 01	59 66	38
146 94		47 57		194 51	72 65	39
86, 976 08	133, 760 28	15, 956 82	1, 239 45	237, 932 63	135, 696 52	40
						41
6, 246 23	261 11	540 00		7, 047 34		42
2, 933 54	266 06	1, 229 37		4, 428 37		43
900 00	232 00	105 50		1, 237 50	462 50	44
2, 880 00	540 02	250 09		3, 670 11	563 87	45
52, 083 40	145, 590 18	6, 875 45*	4, 261 82	208, 830 55	14, 942 94	46
						47
27, 695 37	6, 424 53	18, 946 85	3, 088 29	56, 155 04	21, 166 65	48
548 63	46 13	128 17	59 40	773 33	274 04	49
					85 23	50
						51
39 31		36 50	590 44	666 25		52
485 99	466 49	616 24		1, 568 72	1, 162 74	53

* Includes \$219 80 of some companies whose expenses are greater than receipts.

TABLE XCIV.—TELEGRAPHS—General financial exhibit for the year: 1880—Cont'd.

	Name of company.	Date of close of fiscal year.	RECEIPTS.		
			From mes- sages sent.	From other sources.	Total.
			Dollars.	Dollars.	Dollars.
51	Waterville.....	Apr. 1, 1880		97 50	97 50
52	Western Union.....	June 30, 1880	12,000,000 00	782,894 53	12,782,894 53
53	Worcester and Nashua (a).....	Sept. 30, 1880			
54	Pacific and Atlantic (b).....			80,000 00	80,000 00
55	Michigan (a).....	June 30, 1880	12,137 43	441 40	12,578 83
56	Delaware River (a).....	Dec. 31, 1880		3,000 00	3,000 00
57	Central Pacific (a).....	Dec. 31, 1879			
58	Northern New Hampshire (a).....	Dec. 31, 1879	1,000 00		1,000 00
59	Rodney and Fayette (c).....	June 30, 1880	1,293 76		1,293 76
60	Gold and Stock.....	June 30, 1880		1,055,379 81	1,055,379 81
61	Attakapas (c).....	Sept. 30, 1880	4,689 00		4,689 00
62	Wilkesbarre and Harvey's Lake (c).....	July 1, 1880	150 00		150 00
63	Union Springs and Troy (c).....	—, 1880	2,104 08		2,104 08
64	Rising Sun (c).....	Sept. 30, 1880	346 31		346 31
65	Taylorville and Susanville (c).....	July 1, 1880	200 48		200 48
66	Glen's Falls and Lake George (c).....	July 1, 1880	44 00		44 00
67	Oregon Steam Navigation (c).....	Mar. 31, 1880	14,522 65		14,522 65
68	Continental, Columbia, S. C. (d).....	Dec. 31, 1879	4,431 38		4,431 38
69	Richmond, York River & Ches. (d).....	Sept. 30, 1880	484 97		484 97
70	Cairo and Saint Louis (d).....	Dec. 31, 1879	1,964 14		1,964 14
71	Cumberland and Pennsylvania (d).....	Dec. 31, 1880	1,724 28		1,724 28
72	McKean and Buffalo (d).....	June 1, 1880	268 87		268 87
73	Rhinebeck and Connecticut River (d).....	Sept. 30, 1880	159 55		159 55
74	Detroit and Lansing (d).....	Dec. 31, 1879	10,020 90		10,020 90
75	Northern New York (e).....	Sept. 30, 1880	478 18		478 18
76	Black Diamond (e).....	May 31, 1880	36 00		36 00
77	Cheyenne and Black Hills (e).....	Nov. 30, 1880	16,342 87		16,342 87

a Leased and operated by the Western Union.

b Entire property leased to, and entire expense of maintenance paid by, the Western Union Company. Line merged in and included in the report of Western Union Company.

TABLE XCIV.—General financial exhibit for the year: 1880—Continued.

	Name of company.	CHARGES.		
		Interest paid on debt.	Sinking-fund ap- propriation.	Total.
		Dollars.	Dollars.	Dollars.
	Total.....	564,341 07	40,000 20	604,341 27
1	Alabama and Great Southern.....			
2	Altamaha.....			
3	American Rapid (a).....			
4	Atlantic and Pacific.....			
5	Ashtabula and Pittsburgh.....			
6	American.....			
7	Baltimore and Ohio.....			
8	Burlington and Missouri River.....			
9	Bryan's Pond and Andover.....			
10	Bar Harbor and Mount Desert.....			
11	Bayou Sara and Woodville.....			
12	Columbia and Greenville.....			
13	Central District and Printing.....			
14	Cincinnati and Eastern.....			
15	Chester and Derry.....			
16	Connecticut River.....			
17	Colusa Lake and Mendocino.....			
18	Camden.....			
19	Deseret.....			
20	Ellsworth and Deer Island.....			

a Leased and operated by the Western Union.

TABLE XCIV.—TELEGRAPHS—General financial exhibit for the year: 1880—Cont'd.

EXPENSES.					Net receipts.	
Salaries.	General ex- penses.	Repairs.	All other ex- penses.	Total.		
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	
4,000,000 00	5 48 1,802,466 35	22 11 817,364 60	13 89 1,016,424 13	41 48 7,636,255 08	56 02 5,146,639 45	51 52
	1,086 21			1,066 21	80,000 00 11,512 62	53 54 55
500 00	863 54		242 33	1,605 87	1,394 13	56 57
20 00	4 96			24 96	975 04	58
780 00	39 44	86 00	10 32	915 76	288 00	59
233,406 40	12,149 46	47,623 07	402,893 86	701,072 79	354,307 02	60
3,099 00	158 75	130 50	108 00	3,496 34	1,193 56	61
	100 00	25 00	25 00	150 00		62
967 50	126 95	94 35		1,188 80	915 23	63
60 00		25 00		85 00	261 31	64
		100 00		100 00	100 48	65
70 00				70 00		66
9,750 00		2,527 66		12,277 66	2,244 99	67
4,736 45		1,959 41		6,705 86		68
1,100 00		1,252 00	114 80	2,466 80		69
	1,539 90			1,539 90	374 24	70
	211 63			211 63	1,512 65	71
	319 80			319 80		72
	188 00	140 48		328 48		73
					10,020 90	74
68 47	99 79	152 05		320 31	157 87	75
					36 00	76
148 46	12,169 51			12,317 97	4,024 60	77

c Owned and operated by private individuals.
 d Owned or operated by railroads.
 e Not incorporated.

TABLE XCIV.—General financial exhibit for the year: 1880—Continued.

Net income.	DIVIDENDS DECLARED.		BALANCE FOR THE YEAR.	
	Amount.	Per cent.	Surplus.	Deficit.
Dollars.	Dollars.		Dollars.	Dollars.
5,969,501 77	4,136,749 75		1,832,971 82	95,720 46
				2,810 59
420 00			420 00	
526,607 13	455,000 00	3 1/2	71,607 13	3,023 40
407 57	421 50	3		13 93
367 74			367 74	71,384 08
1,597 20			1,597 20	
644 19			644 19	
9,414 70	8,500 00	11 1/2	914 70	2,274 48
463 64	297 00	9	166 64	
50 00	45 00	10	5 00	
700 00			700 00	
977 00			977 00	
700 00			700 00	
1,886 98			1,886 98	
640 07			640 07	

TABLE XCIV.—TELEGRAPHS—General financial exhibit for the year: 1880—Cont'd.

Name of company.	CHARGES.		
	Interest paid on debt.	Sinking-fund appropriation.	Total.
	Dollars.	Dollars.	Dollars.
21 Ellsworth and Fremont.....			
22 Fayetteville and Lumberton.....			
23 Fountain City and Alma.....			
24 Frontier.....	49 50		49 50
25 Georgetown and Kingston.....			
26 Huntingdon and Broad Top Mountain.....			
27 Harrington and Jonesport.....			
28 Homer and Minden.....			
29 International Ocean.....	462 00		462 00
30 Little Rock and Fort Smith.....			
31 Lehigh.....			
32 Lake Mohonk.....			
33 Lake Superior and Mineral Range.....			
34 Montezuma.....			
35 Middletown.....			
36 Mineral Point and Dodgeville.....			
37 Montana Central.....			
38 Marine.....			
39 Millbridge and Cherryfield.....			
40 Northwestern.....	88,252 50		88,252 50
41 Northwestern Ohio.....			
42 Paducah and Elizabethtown.....			
43 Providence and Pascoag.....			
44 Pensacola.....			
45 Philadelphia Local.....			
46 Philadelphia, Reading and Pottsville.....	12,000 00		12,000 00
47 Pee Dee.....			
48 Poughkeepsie, Hartford and Boston.....			
49 Rumford Falls and Buckfield.....			
50 Vermont International.....	67 14		67 14
51 Waterville.....			
52 Western Union.....	428,516 93	40,000 20	468,517 13
53 Worcester and Nashua.....			
54 Pacific and Atlantic.....			
55 Michigan.....			
56 Delaware River.....			
57 Central Pacific.....			
58 Northern New Hampshire.....			
59 Rodney and Fayette.....			
60 Gold and Stock.....	34,993 00		34,993 00
61 Attakapas.....			
62 Wilkesbarre and Harvey's Lake.....			
63 Union Springs and Troy.....			
64 Rising Sun.....			
65 Taylorville and Susanville.....			
66 Glen's Falls and Lake George.....			
67 Oregon Steam Navigation.....			
68 Continental, Columbia, S. C.....			
69 Richmond, York River & Ches.....			
70 Cairo and Saint Louis.....			
71 Cumberland and Pennsylvania.....			
72 McKean and Buffalo.....			
73 Rhinebeck and Connecticut River.....			
74 Detroit and Lansing.....			
75 Northern New York.....			
76 Black Diamond.....			
77 Cheyenne and Black Hills.....			

TABLE XCIV.—TELEGRAPHS—General financial exhibit for the year: 1880—Cont'd.

Net income.	DIVIDENDS DECLARED.		BALANCE FOR THE YEAR.		
	Amount.	Per cent.	Surplus.	Deficit.	
<i>Dollars.</i>	<i>Dollars.</i>		<i>Dollars.</i>	<i>Dollars.</i>	
195 78	160 00	5	35 78		21
130 00	130 00	10			22
250 00			250 00		23
1,350 62			1,350 62		24
					25
				2,276 10	26
78 95			78 95		27
581 00			581 00		28
218,702 73	112,216 00	8	106,486 73		29
556 66			556 66		30
8,954 14	1,000 00	5	7,954 14		31
235 00			235 00		32
2,340 55	1,400 00		940 55		33
343 45	284 00	6	59 45		34
23 00			23 00		35
					36
4,163 48			4,163 48		37
59 66			59 66		38
72 65			72 65		39
47,444 02	31,250 00	2½	16,194 02		40
				6,128 87	41
				2,663 23	42
462 50	150 00	3	312 50		43
563 87			563 87		44
14,942 94	14,000 00	3½	942 94		45
9,100 65			9,100 65		46
274 04			274 04		47
85 23			85 23		48
				487 74	49
1,095 60			1,095 60		50
56 02	20 00	20	36 02		51
4,678,122 32	3,280,276 25	8	1,397,846 07		52
					53
80,000 00	80,000 00	4			54
11,512 62			11,512 62		55
				205 87	56
1,394 13	1,000 00	4			57
975 04			975 04		58
288 00			288 00		59
319,314 02	150,000 00	6	169,314 02		60
					61
1,193 56			1,193 56		62
					63
915 28			915 28		64
261 31			261 31		65
100 48			100 48		66
				26 00	67
2,244 99			2,244 99		68
				2,274 48	69
				1,981 83	70
374 24			374 24		71
					72
1,512 65			1,512 65		73
				50 83	74
				168 93	75
10,020 90			10,020 90		76
157 87			157 87		77
					78
36 00			36 00		79
4,024 60			4,024 60		80

TABLE XCV.—TELEGRAPHS—Balance sheet: 1880.

NOTE.—The railroad companies owning telegraph lines have reported their receipts, expenses, and their railroad accounts, do not therefore appear,

Name of company.	ASSETS.				
	Franchise.	Cash.	Bills receivable.	Accounts receivable.	Total.
Total	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	93,062,921 74	1,087,795 89	179,269 78	2,902,652 19	97,232,639 60
1 Alabama and GreatSouthern (a)					
2 Altamaha (b)					
3 American Rapid	3,091,194 32	15,040 97			3,106,235 29
4 Atlantic and Pacific	15,062,012 07	76,504 58	1,954 91	265,635 26	15,406,106 82
5 Ashtabula and Pittsburgh (a)					
6 American	14,050 00				14,050 00
7 Baltimore and Ohio (a)					
8 Burlington & Missouri River (a)					
9 Bryant's Pond and Andover (c)					
10 Bar Harbor and Mt. Desert (d)					
11 Bayou Sara and Woodville (b)					
12 Columbia and Greenville (a)					
13 Central District and Printing	500,000 00	914 70			500,914 70
14 Cincinnati and Eastern		218 57		4,490 65	4,709 22
15 Chester and Derry (b)					
16 Connecticut River	16,000 00	700 00			16,700 00
17 Colusa Lake and Mendocino	25,056 00	302 00		898 00	25,256 00
18 Camden (b)					
19 Deseret	290,360 46	2,646 59	957 89	1,077 14	293,042 08
20 Ellsworth and Deer Island	6,000 00				6,000 00
21 Ellsworth and Fremont (d)					
22 Fayetteville and Lumberton		1,300 00			1,300 00
23 Fountain City and Alma (b)					
24 Frontier (e)	13,037 15	75 35			13,112 50
25 Georgetown and Kingston (d)					
26 Huntington and Broad Top Mountain (a)					
27 Harrington and Jonesport	2,240 00				2,240 00
28 Homer and Minden (b)					
29 International Ocean	2,137,117 88	3,241 11		251,057 04	2,391,416 03
30 Little Rock and Fort Smith (a)					
31 Lehigh	16,879 00	1,100 17			17,979 17
32 Lake Mohonk		2,350 00			2,350 00
33 Lake Superior and Mineral Range	10,558 38	625 78		8,938 36	20,122 52
34 Montezuma	4,603 30	43 23	g 50 50	92 04	4,789 07
35 Middletown	1,000 00				1,000 00
36 Mineral Point and Dodgeville	500 00				500 00
37 Montana Central (b)					
38 Marine	7,300 00	59 66			7,359 66
39 Millbridge and Cherryfield	1,000 00				1,000 00
40 Northwestern	1,500,000 00			6949,000 00	2,449,000 00
41 Northwestern Ohio (a)					
42 Paducah and Elizabethtown (a)					
43 Providence and Pascoag	5,000 00	312 50			5,312 50
44 Pensacola	8,000 00				8,000 00
45 Philadelphia Local	409,881 21	179 37	12,231 35		422,291 93

a Owned and operated by railroad company.

b No report.

c Not incorporated.

d Report incomplete.

e Six months.

f Cost of line.

TABLE XCV.—TELEGRAPHS—Balance sheet: 1880.

general financial statements; but the assets, liabilities, &c., of such companies, being included with nor are they included in this report.

LIABILITIES.					
Capital stock.	Funded debt.	Other debt.	Profit and loss.	Total.	
<i>Dollars.</i> 67,901,255 10	<i>Dollars.</i> 8,167,492 78	<i>Dollars.</i> 1,201,671 72	<i>Dollars.</i> 19,962,220 00	<i>Dollars.</i> 97,232,639 60	
					1
					2
					3
					4
					5
					6
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					12
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					41
					42
					43
					44
					45

g Supplies.
A Value of line.

‡ Value.
Bonds.

TABLE XCV.—TELEGRAPHS—Balance sheet: 1880—Continued.

	Name of company.	ASSETS.				
		Franchise.	Cash.	Bills receivable.	Accounts receivable.	Total
		<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
46	Philadelphia, Reading and Pottsville.	235,152 68	9,917 08	a 5,098 16	9,172 77	259,340 69
47	Pee Dee	2,177 18	5 23			2,182 41
48	Poughkeepsie, Hartford and Boston. (b)					
49	Rumford Falls and Buckfield (b)					
50	Vermont International	14,859 99	1,395 00	c 482 61	133 13	16,871 63
51	Waterville	100 00	36 02			136 02
52	Western Union	63,520,538 50	959,770 91	158,078 36	1,008,204 49	65,646,592 26
53	Worcester and Nashua (d)					
54	Pacific and Atlantic	2,000,000 00				2,000,000 00
55	Michigan	150,000 00				150,000 00
56	Delaware River	40,000 00	2,134 54		2,536 78	44,721 32
57	Central Pacific (d)					
58	Northern New Hampshire	20,900 00				20,900 00
59	Rodney and Fayette	1,500 00	288 00			1,788 00
60	Gold and Stock	2,938,203 02	8,618 26	416 00	401,304 76	4,348,542 64
61	Attakapas	3,000 00				3,000 00
62	Wilkesbarre and Harvey's Lake	1,000 00				1,000 00
63	Union Springs and Troy (e)					
64	Rising Sun (f)					
65	Taylorville and Susanville (f)					
66	Glen's Falls and Lake George	g 1,250 00				1,250 00
67	Oregon Steam Navigation (f)					
68	Continental, Columbia, S. C. (b)					
69	Richmond, York River and Chesapeake. (b)					
70	Cairo and Saint Louis (b)					
71	Cumberland & Pennsylvania (b)					
72	McKean and Buffalo (b)					
73	Rhinebeck and Connecticut River. (b)					
74	Detroit and Lansing (b)					
75	Northern New York (h)					
76	Black Diamond (h)					
77	Cheyenne and Black Hills	19,450 00	15 37		61 77	19,527 14

a Material.

b Owned and operated by railroad company.

c Stock.

d Leased to the Western Union Telegraph Company.

TABLE XCV.—TELEGRAPHS—Balance sheet: 1880—Continued.

LIABILITIES.				
Capital stock.	Funded debt.	Other debt.	Profit and loss.	Total.
<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
20,000 00	200,000 00	39,340 69		259,340 69 46
1,640 00	268 37		274 04	2,182 41 47
				48
16,000 00		259 72	611 91	16,871 63 50
100 00		5 05	80 97	136 02 51
41,073,410 00	6,254,308 00	783,788 37	17,535,085 89	65,646,592 26 52
				53
2,000,000 00				2,000,000 00 54
150,000 00				150,000 00 55
40,000 00	175 00	352 00	4,194 32	44,721 32 56
				57
20,900 00				20,900 00 58
1,500 00			288 00	1,788 00 59
2,500,000 00	500,000 00	227,382 68	1,121,159 96	4,348,542 64 60
				61
3,000 00				3,000 00 62
1,000 00				1,000 00 63
				64
				65
1,250 00				1,250 00 66
				67
				68
				69
				70
				71
				72
				73
				74
				75
				76
19,032 52		494 62		19,527 14 77

e Report incomplete.
 f Owned and operated by private individuals.
 g Value.
 * Not incorporated.

TABLE XCVI.—TELEGRAPHS—*Capital stock: 1880.*

Name of company.	AUTHORIZED BY LAW OR CHARTER.		ISSUED FOR CASH.	
	Number of shares.	Amount.	Number of shares.	Amount.
Total	963,621	Dollars. 75,907,250	839,143	Dollars. 66,529,200
1 Alabama and Great Southern (a)				
2 Altamaha (b)				
3 American Rapid	100,000	10,000,000	30,000	3,000,000
4 Atlantic and Pacific	150,000	15,000,000	140,000	14,000,000
5 Ashtabula and Pittsburgh (a)				
6 American	1,000	25,000	582	14,050
7 Baltimore and Ohio (a)				
8 Burlington and Missouri River (a)				
9 Bryant's Pond and Andover (c)				
10 Bar Harbor and Mount Desert (d)	28	1,400		
11 Bayou Sara and Woodville (b)				
12 Columbia and Greenville (a)				
13 Central District and Printing	5,000	500,000	5,000	500,000
14 Cincinnati and Eastern	100	10,000	45	4,500
15 Chester and Derry (b)				
16 Connecticut River	640	16,000	640	16,000
17 Colusa Lake and Mendocino	1,000	25,000		
18 Camden (b)				
19 Deseret	5,000	500,000		
20 Ellsworth and Deer Island	240	6,000	218	5,450
21 Ellsworth and Fremont (d)				
22 Fayetteville and Lumberton	26	1,300	26	1,300
23 Fountain City and Alma (b)				
24 Frontier (e)	100	10,000	100	10,000
25 Georgetown and Kingston (d)	4,000	4,000	110	110
26 Huntingdon and Broad Top Mountain (a)				
27 Harrington and Jonesport	28	2,240		
28 Homer and Minden (b)				
29 International Ocean	15,000	1,500,000	15,000	1,500,000
30 Little Rock and Fort Smith (a)				
31 Lehigh	30	3,000	23	2,350
32 Lake Mohonk				
33 Lake Superior and Mineral Range	20,000	20,000	7,000	7,000
34 Montezuma	50	5,000	47	4,700
35 Middletown	100	1,000	100	1,000
36 Mineral Point and Dodgeville	50	500	29	290
37 Montana Central (b)				
38 Marine	60	300	60	300
39 Millbridge and Cherryfield	200	1,000		
40 Northwestern	30,000	1,500,000	25,000	1,250,000
41 Northwestern Ohio (a)				
42 Paducah and Elizabethtown (a)				
43 Providence and Pascoag	500	50,000	50	5,000
44 Pensacola	50	5,000	50	5,000
45 Philadelphia Local	16,000	400,000	16,000	400,000

a Owned and operated by railroad company.

b No report.

c Not incorporated.

d Report incomplete.

e Six months.

TABLE XCVI.—TELEGRAPHS—*Capital stock: 1880—Continued.*

Name of company.	AUTHORIZED BY LAW OR CHARTER.		ISSUED FOR CASH.	
	Number of shares.	Amount.	Number of shares.	Amount.
Philadelphia, Reading and Pottsville . . .	1,000	Dollars. 50,000	400	Dollars. 20,000
Pee Dee	500	5,000	164	1,640
Poughkeepsie, Hartford and Boston (a)	-----	-----	-----	-----
Rumford Falls and Buckfield (a)	-----	-----	-----	-----
Vermont International	160	16,000	160	16,000
Waterville	5	100	5	100
Western Union	410,734	41,073,410	410,734	41,073,410
Worcester and Nashua (b)	-----	-----	-----	-----
Pacific and Atlantic	80,000	2,000,000	80,000	2,000,000
Michigan	6,000	150,000	6,000	150,000
Delaware River	21,000	525,000	1,600	40,000
Central Pacific (b)	-----	-----	-----	-----
Northern New Hampshire	-----	-----	-----	-----
Rodney and Fayette	-----	-----	-----	-----
Gold and Stock	100,000	2,500,000	100,000	2,500,000
Attakapas	-----	-----	-----	-----
Wilkesbarre and Harvey's Lake	20	1,000	20	1,000
Union Springs and Troy (c)	-----	-----	-----	-----
Rising Sun (d)	-----	-----	-----	-----
Taylorville and Susanville (d)	-----	-----	-----	-----
Glen's Falls and Lake George	-----	-----	-----	-----
Oregon Steam Navigation (d)	-----	-----	-----	-----
Continental, Columbia, S. C. (a)	-----	-----	-----	-----
Richmond, York River and Chesapeake (a)	-----	-----	-----	-----
Cairo and Saint Louis (a)	-----	-----	-----	-----
Cumberland and Pennsylvania (a)	-----	-----	-----	-----
McKean and Buffalo (a)	-----	-----	-----	-----
Rhinebeck and Connecticut River (a)	-----	-----	-----	-----
Detroit and Lansing (a)	-----	-----	-----	-----
Northern New York (e)	-----	-----	-----	-----
Black Diamond (e)	-----	-----	-----	-----
Cheyenne and Black Hills	-----	-----	-----	-----

a Owned and operated by railroad company.
 b Leased to the Western Union Telegraph Company.
 c Report incomplete.
 d Owned and operated by private individuals.
 e Not incorporated.

TABLE XCVII.—TELEGRAPHS—*Service account: 1880.*

NOTE.—Twenty-seven of the seventy-seven companies make no report of the number of messages no report, the Baltimore and Ohio is operated by the railroad company, and the Gold and Stock does \$410,737 54 receipts from messages, have kept no record of the number of messages sent. The receipts

Name of company.		MESSAGES TRANSMITTED.		
		Number for the press.	Number for other parties.	Total.
Total		3, 154, 398	28, 548, 783	31, 703, 181
1	Alabama and Great Southern		11, 472	11, 472
2	Altamaha	20	3, 600	3, 680
3	American Rapid (a)			
4	Atlantic and Pacific	137, 593	1, 040, 126	1, 177, 719
5	Ashtabula and Pittsburgh		4, 915	4, 915
6	American			
7	Baltimore and Ohio			
8	Burlington and Missouri River		40, 000	40, 000
9	Bryan's Pond and Andover			
10	Bar Harbor and Mount Desert		6, 897	6, 897
11	Bayou Sara and Woodville		4, 132	4, 132
12	Columbia and Greenville			
13	Central District and Printing			
14	Cincinnati and Eastern	48	6, 398	6, 446
15	Chester and Derry		650	650
16	Connecticut River		15, 000	15, 000
17	Colusa Lake and Mendocino			
18	Camden		1, 850	1, 850
19	Deseret		33, 352	33, 352
20	Ellsworth and Deer Island			
21	Ellsworth and Fremont		1, 042	1, 042
22	Fayetteville and Lumberton		3, 536	3, 536
23	Fountain City and Alma		2, 000	2, 000
24	Frontier	213	4, 923	5, 136
25	Georgetown and Kingston (a)			
26	Huntingdon and Broad Top Mountain		1, 053	1, 053
27	Harrington and Jonesport		779	779
28	Homer and Minden	28	920	948
29	International Ocean	2, 500	114, 462	116, 962
30	Little Rock and Fort Smith			
31	Lehigh		13, 100	13, 100
32	Lake Mohonk		1, 715	1, 715
33	Lake Superior and Mineral Range	250	17, 694	17, 944
34	Montezuma	64	3, 974	4, 038
35	Middletown		270	270
36	Mineral Point and Dodgeville	3	900	903
37	Montana Central	50	5, 650	5, 700
38	Marine		1, 232	1, 232
39	Millbridge and Cherryfield		808	808
40	Northwestern			
41	Northwestern Ohio		7, 716	7, 716
42	Paducah and Elizabethtown	63	3, 405	3, 468
43	Providence and Pascoag		6, 800	6, 800
44	Pensacola	50	7, 450	7, 500
45	Philadelphia Local	13, 000	685, 000	698, 000

a Not in operation.

TABLE XCVII.—TELEGRAPHS—Service account: 1880.

sent. Of these, four are operated by the Western Union Company, two are not in operation, two make not have a message business. The remaining seventeen companies, reporting an aggregate amount of from these companies are only a little more than 2 per cent. of the total receipts from messages sent.

DESCRIPTION OF LINES.				AVERAGE NUMBER PERSONS EMPLOYED.						Number of poles set during the year.	Average cost of poles delivered at distributing points.
Total length of lines.	Total miles of wire.	Number of stations or offices.	Principal terminus stations.	General officers.	General office clerks.	Operators.	Messengers.	Line, repairers and other employes.	Total.		
Miles.										Dolls.	
110,726½	231,212¾	12,510	205	172	165	9,661	2,469	2,461	14,928	248,348	.....
305	.....	25	5	1	2	25	2	2	32	25	1 00
34	34	2	2	1	.....	2	.....	.....	5	60	50
256	635	.....	.....	3	.....	.....	.....	100	103	6,100	2 00
6,634	19,191	317	6	7	10	232	117	138	504	.....	.....
63½	63½	14	2	.....	.....	14	.....	2	16	.....	.....
80	85	13	2	7	.....	13	.....	1	21	.....	6
2,058	11,553	415	13	3	3	330	57	125	518	25,327	1 15
562	822	57	.....	.....	.....	88	6	.....	94	600	1 25
21	21	3	2	.....	.....	3	.....	.....	3	50	50
17	17	2	2	3	1	2	3	.....	9	.....	10
80	82	3	2	.....	.....	2	.....	.....	2	50	50
300	300	620	.....	4	2	28	31	14	79	1,107	4 25
62	65	9	4	2	.....	9	.....	.....	11	600	85
7	7	4	2	3	.....	4	.....	.....	7	.....	50
65	80	20	2	4	1	20	.....	1	26	50	1 00
180	180	20	3	1	.....	20	.....	.....	21	40	2 00
58	.....	2	.....	.....	.....	1	.....	.....	1	55	15
955	1,130	59	9	3	1	59	1	4	65	1,200	80
30	30	4	2	8	.....	4	4	.....	16	.....	50
21	21	3	2	4	.....	3	.....	.....	7	25	75
33	33	2	2	2	.....	2	.....	.....	6	.....	.....
30	30	4	2	1	.....	4	1	1	6	.....	.....
248	250	13	2	1	.....	13	2	.....	16	.....	.....
45	45	2	2	2	.....	2	.....	.....	5	1,250	70
52	52	10	2	.....	.....	10	.....	.....	10	.....	90
17	17	3	2	.....	.....	3	.....	.....	3	1	50
20	20	2	2	.....	.....	2	.....	.....	2	35	50
742½	1,080	34	2	10	5	24	6	22	67	.....	28
165	165	12	2	1	.....	12	2	1	16	.....	1 50
135	199	64	6	6	1	70	3	6	86	1,600	1 25
32½	32½	5	5	1	.....	4	.....	.....	5	.....	32
45	58	12	5	2	.....	12	3	.....	17	350	50
35	35	6	6	2	.....	6	2	.....	10	2	1 50
8	8	2	2	.....	.....	2	.....	.....	2	20	50
8	8	3	3	4	.....	3	.....	.....	7	.....	.....
83	83	3	3	1	.....	3	.....	.....	4	.....	37
5½	5½	2	2	3	2	2	1	.....	8	.....	30
5	5	2	2	2	.....	2	.....	.....	4	.....	1 00
6,849	11,616	657	7	8	6	750	125	20	909	30,000	90
83½	83½	12	2	.....	.....	19	.....	2	21	4,120	1 00
186	186	19	2	.....	.....	20	.....	.....	20	.....	42
29	37	9	2	.....	.....	7	2	.....	11	32	90
100	100	3	3	2	.....	9	2	.....	13	.....	1 00
425	425	110	2	2	4	47	15	41	110	113	3 82

TABLE XCVII.—TELEGRAPHS—*Service account: 1880—Continued.*

	Name of company.	MESSAGES TRANSMITTED.		
		Number for the press.	Number for other parties.	Total.
46	Philadelphia, Reading and Pottsville		221,620	221,620
47	Pee Dee	20	952	972
48	Poughkeepsie, Hartford and Boston			
49	Rumford Falls and Buckfield		1,200	1,200
50	Vermont International			
51	Waterville			
52	Western Union	a3,000,000	a26,215,509	29,215,509
53	Worcester and Nashua			
54	Pacific and Atlantic			
55	Michigan			
56	Delaware River			
57	Central Pacific			
58	Northern New Hampshire			
59	Rodney and Fayette	105	2,914	3,019
60	Gold and Stock			
61	Attakapas	185	14,115	14,300
62	Wilkesbarre and Harvey's Lake		400	400
63	Union Springs and Troy		7,050	7,050
64	Rising Sun	115	968	1,113
65	Taylorville and Susanville	19	633	657
66	Glen's Falls and Lake George			
67	Oregon Steam Navigation		8,040	8,040
68	Continental, Columbia, S. C.			
69	Richmond, York River and Chesapeake			
70	Cairo and Saint Louis			
71	Cumberland and Pennsylvania			
72	McKean and Buffalo		1,200	1,200
73	Rhinebeck and Connecticut River		25	25
74	Detroit and Lansing			
75	Northern New York		5,663	5,663
76	Black Diamond		3,860	3,860
77	Cheyenne and Black Hills	72	11,718	11,790

a Estimated.

TABLE XCVII.—TELEGRAPHS—Service account: 1880—Continued.

DESCRIPTION OF LINES.				AVERAGE NUMBER PERSONS EMPLOYED.						Number of poles set during the year.	Average cost of poles delivered at distributing points.	
Total length of lines.	Total miles of wire.	Number of stations or offices.	Principal terminus stations.	General officers.	General office clerks.	Operators.	Messengers.	Line repairers and other employes.	Total.			
<i>Miles.</i>											<i>Dolls.</i>	
2,366	349	8	4	531					535	592	3 80	46
45	4	8	6	4					10	25	40	47
45	10	8		10					10			48
37½	4	8		4					4	350	40	49
120	22	8	4	22			1		27			50
2½	25	3										51
85,645	233,534	9,077	13	a100	a7,000	a2,000	a1,487	a10,600	168,056	1 02		52
46	91	10	2									53
967	980		3						3			54
												55
104	222	3	3	4					4			56
1,100	2,947	98										57
												58
16	18	2	1	2					3	50	1 00	59
	429	165	N. Y.	19	27	59	65	494	664			60
												61
58	58	3	2	1		8			9	10	70	61
14	14	3	2	2		3			8	2	75	62
30	30	2	2	1		2	1		4		75	63
8	8	2	2	2		2			2	7	60	64
32	32	2	2	3		2			5	10	1 20	65
												66
20½	20½	3	2	2		3			5			67
230	280	11				11	2		13	3,118	1 48	67
196	196	16				16	2		18	400	60	68
38½	38½	5				5			5	1,100	40	69
146	146	18				18	1		19			70
		10	2							50	75	71
22½	25	7	2	1		7			8			72
43	43	8	2	1		8			9		50	73
200	205	40	2			40	4		44	800	30	74
30	38	7	3			7			7			75
												76
6	6	2	2			2			2			76
255	255	8	3			8	1		9	971	1 05	77

a Estimated.

TELEPHONES.

REMARKS.

The tables which exhibit the telephone system of the United States (as it existed in the census year) contain 148 companies and private concerns, which aggregate 34,305 miles of wire, 54,319 receiving telephones, and 3,338 employés.

Of this aggregate number of companies 74 make a complete set of reports, as required by the Census Bureau, including assets, receipts, or financial exhibit, and equipment and service account and employés.

The 74 companies, &c., reporting assets have 26,764 miles of wire and 2,630 employés, while the 74 companies which omitted to give their assets have only 7,541 miles of wire and 708 employés.

There are 132 companies, with 32,734 miles of wire and 3,104 employés, which report receipts from messages sent, &c., leaving 16 companies, &c., with 1,571 miles of wire and 234 employés, which omitted to report receipts or finances. All the companies, &c., which made reports, namely 148, show equipment and service account, and nearly all report employés, the few exceptions being those which attend to their telephone machinery and wire in person and do not hire attendants.

Besides those 148 companies, &c., which made reports some companies and parties known to own telephone machinery and wire had been requested to send in statements of their business, &c., but none could be obtained, as those companies had either not fully organized or commenced operations; therefore the aggregates, as exhibited in general financial exhibit, balance sheet, and service account, can only be taken as an approximation to the telephone business in the United States in 1880.

At the time when these statistics of the telephone business were collected some concerns were just in process of organization and had as yet, although chartered, not opened business and regular accounts, and therefore no satisfactory data could be obtained from such.

The tables following, therefore, only exhibit such companies and concerns as made reports of either their capital invested (assets) or general business.

The collections made have been with a view to exhibit the telephone business in 1880 as completely as circumstances allowed, and for the purpose of establishing a basis for the future taking of such statistics.

TABLE XCVIII.—TELEPHONES—General financial exhibit: 1880.

	Name of company.	LOCATION.		Length of wire.
		City.	State.	
	Total			<i>Miles.</i> 32, 734
1	Allentown Telephone Exchange.....	Allentown	Pa	50
2	American Bell Telephone Company	Boston	Mass	1, 250
3	American Bell Telegraph Company of Fulton	Fulton	N. Y	8
4	American Bell Telegraph Exchange of Jamestown	Jamestown	N. Y	48
5	American District Telegraph Co. of Erie (limited)	Erie	Pa	20
6	American District Telegraph Company	Syracuse	N. Y	206
7	American District Telegraph Company of Utica	Utica	N. Y	160
8	American District Telegraph and Telephone Co	San José	Cal	15
9	Ames and Nevada Telephone Company	Nevada	Iowa .....	.....
10	Amsterdam Telegraph and Telephone Company	Amsterdam	N. Y	25
11	Anderson, T. B., Sedalia Telephone Exchange	Sedalia	Mo	40
12	Atchison Telephone Exchange Company	Atchison	Kans	45
13	Ayer Telephone Company	Ayer	Mass .....	.....
14	Balch & Root	Morrison	Ill	106
15	Batavia Telephone Exchange	Batavia	N. Y	30
16	Beatrice Electric Company	Beatrice	Nebr	4
17	Bell Telephone Company of Buffalo	Buffalo	N. Y	1, 211
18	Bell Telephone Company of Illinois	Chicago	Ill	1, 000
19	Bell Telephone Company of Madison	Madison	Wis	80
20	Bell Telephone Company of Missouri	Saint Louis	Mo	785
21	Bell Telephone Company of Philadelphia	Philadelphia	Pa	1, 442
22	Black Hills Telephone Exchange Company	Deadwood	Dak	40
23	Bloomington Telephone Company	Bloomington	Ill	100
24	Boston and Northern Telephone Company	Salon	Mass	107
25	Bradford Telephone Company	Bradford	Pa	100
26	Brockton Telephone Company	Brockton	Mass	50
27	Brookline Telephone Exchange	Brookline	Mass	45
28	Burlington District Telephone Company	Burlington	Vt	35
29	Catskill Telegraph and Telephone Company	Catskill	N. Y	60
30	Central District and Printing Telegraph Company	Bellaire	Ohio	19
31	Central District and Printing Telegraph Company	Pittsburgh	Pa	459
32	Central District and Printing Telegraph Company	Wheeling	W. Va	87
33	Central Massachusetts Telephone Company	South Framingham	Mass	200
34	Central Pennsylvania Telephone and Supply Co	Williamsport	Pa	463
35	Central Telephone Company	Alton	Ill	267
36	City and Suburban Telegraph Association	Cincinnati	Ohio	2, 100
37	Cheshire County Telephone Company	Keene	N. H .....	.....
38	Chippewa Valley Telegraph and Telephone Co	Eau Claire	Wis	140
39	Cleveland Telephone Company	Cleveland	Ohio	456
40	Clinton and Lyons Bell Telephone Company	Clinton	Iowa	207
41	Colorado Telephone Company	Denver	Colo	700
42	Columbia Telephone Exchange	Columbia	Pa	25
43	Columbus (Ind.) Telephone Exchange	Columbus	Ind .....	.....
44	Commercial Telephone Company	Albany	N. Y	1, 000
45	Concord Telephone Exchange	Concord	N. H	43
46	Connecticut Telephone Company	New Haven	Conn	1, 500
47	Connersville Bell Telephone Company	Connersville	Ind	20
48	Corry Telephone Exchange	Corry	Pa	8
49	Council Bluffs Telephone Company	Council Bluffs	Iowa	18
50	Danbury Telephone Dispatch Company	Danbury	Conn	35
51	Doboy and Union Island Telegraph Company	Darien	Ga	10
52	Domestic Telegraph and Telephone Company	Newark	N. J	470
53	Dunkirk Telephone Exchange	Dunkirk	N. Y	25
54	Eastern Pennsylvania Telephone Exchange	Reading	Penn	526
55	Easton Telephone Exchange	Easton	Penn	20
56	East Tennessee Telephone Company	Chattanooga	Tenn	185
57	Elmira Bell Telephone Exchange	Elmira	N. Y	55
58	Evansville Telephone Exchange	Evansville	Ind	129
59	Fishkill Telephone Company	Fishkill	N. Y	22
60	Freeport Telephone Exchange Company	Freeport	Ill	30

TABLE XCVIII.—TELEPHONES—General financial exhibit: 1890.

Receipts.	Expenditures.	Net income.	Dividends.	Surplus.	Deficits.	
<i>Dollars.</i> 3, 098, 081	<i>Dollars.</i> a 2, 873, 703	<i>Dollars.</i> 770, 516	<i>Dollars.</i> 302, 730	<i>Dollars.</i> 467, 786	<i>Dollars.</i> 46, 138	
4, 749	4, 356	393		393		1
605, 184	339, 426	265, 758	178, 500	87, 258		2
597	445	152		152		3
1, 972	1, 353	619		619		4
5, 574	4, 244	1, 330		1, 330		5
13, 000	13, 945				945	6
17, 770	11, 974	5, 796		5, 796		7
3, 900	1, 800	2, 100		2, 100		8
479	402	77		77		9
3, 600	2, 300	1, 300		1, 300		10
4, 600	3, 453	547		547		11
4, 911	4, 899	12		12		12
1, 126	1, 086	40		40		13
646	569	77		77		14
79, 048	69, 302	9, 746		9, 746		15
63, 516	62, 925	591		591		16
3, 510	3, 510					17
97, 488	63, 368	34, 120	6, 000	28, 120		18
168, 516	103, 024	65, 492	63, 840	1, 652		19
4, 236	2, 823	1, 313		1, 313		20
6, 650	4, 950	1, 700		1, 700		21
3, 254	1, 638	1, 616		1, 616		22
5, 629	6, 865				1, 236	23
3, 769	2, 810	859		859		24
3, 302	3, 362					25
4, 541	2, 600	1, 941		1, 941		26
469	306	163		163		27
1, 545	692	853		853		28
95, 303	54, 213	41, 090	15, 000	26, 090		29
9, 098	3, 828	5, 270		5, 270		30
5, 408	5, 108	300		300		31
22, 818	11, 140	11, 678		11, 678		32
10, 375	14, 553				4, 178	33
128, 221	113, 077	15, 144	8, 000	7, 144		34
6, 246	5, 637	609		609		35
22, 168	21, 047	1, 121		1, 121		36
6, 250	6, 927				677	37
75, 925	57, 747	18, 178	18, 000	178		38
685	442	243		242		39
48, 173	47, 478	695		695		40
2, 000	2, 040				40	41
60, 500	6, 365	54, 135		54, 135		42
1, 262	663	599		599		43
739	659	80		80		44
3, 503	2, 012	681		681		45
2, 812	2, 628	184		184		46
94	35	59		59		47
25, 632	16, 186	9, 466		9, 466		48
1, 374	1, 299	75		75		49
10, 533	6, 808	3, 725		3, 725		50
1, 200	4, 600				3, 400	51
18, 956	6, 232	12, 724	1, 240	11, 484		52
3, 965	3, 365					53
10, 523	24, 679				14, 156	54
1, 494	1, 214	280		280		55
2, 481	4, 142				1, 661	56

a Amount of expenses over receipts by some companies aggregates \$46,138 (see deficits).

TABLE XCVIII.—TELEPHONES—General financial exhibit: 1880—Continued.

	Name of company.	LOCATION.		Length of wire. Miles.
		City.	State.	
61	Fulton County Telephone Company	Gloversville	N. Y.	20
62	Galesburg Telephone Exchange	Galesburg	Ill.	10
63	Galion Telephone Exchange	Galion	Ohio	12
64	Glenwood Telephone Exchange Company	Glenwood	Iowa	10
65	Greenville Telephone Exchange	Greenville	Ohio	15
66	Hannibal Telephone Company	Hannibal	Mo.	80
67	Harrisburg Telephone Exchange	Harrisburg	Penn.	
68	Henderson Telephone Exchange	Henderson	Ky.	32
69	Hope Valley Telephone Company	Hope Valley	R. I.	9
70	Hot Springs Telephone Exchange	Hot Springs	Ark.	25
71	Hudson Telegraph and Telephone Company	Hudson	N. Y.	41
72	Inter-State Telephone Company	Providence	R. I.	400
73	Ithaca Telephone Exchange	Ithaca	N. Y.	30
74	Janesville Telephone Exchange	Janesville	Wis.	17
75	Johnson, L.	Vincennes	Ind.	
76	Joliet Telephone Company	Joliet	Ill.	85
77	Lambertville Telephone Exchange	Lambertville	N. J.	
78	Lancaster Bell Telephone Exchange	Lancaster	Penn.	
79	Leadville Telephone Company	Leadville	Colo.	220
80	Leavenworth Telephone Exchange Company	Leavenworth	Kans.	175
81	Litchfield Telephone Company	Litchfield	Conn.	8
82	Little Rock Telephone Exchange	Little Rock	Ark.	65
83	Lowell District Telephone Company	Lowell	Mass.	1,500
84	Louisiana Telephone Company	New Orleans	La.	478
85	Manchester Telephone Exchange	Manchester	N. H.	165
86	Mansfield Telephone Exchange	Mansfield	Ohio	25
87	Marshalltown Telephone Company	Marshalltown	Iowa	42
88	Maryland Telephone Company	Baltimore	Md.	600
89	Mayfield, E. W.	Jacksonville	Ill.	35
90	Memphis Telephone Exchange	Memphis	Tenn.	120
91	Merchants' Telephone and Telegraph Company	Emporia	Mo.	
92	Metropolitan Telephone and Telegraph Company	New York	N. Y.	4,973
93	Middletown Telephone Exchange	Middletown	Ohio	30
94	Milwaukee Telephone Exchange Company	Milwaukee	Wis.	537
95	Montana Agency	Fort Benton	Montana	25
96	Montpelier Telephone Exchange	Montpelier	Vt.	
97	Muncie Bell Telephone Company	Muncie	Ind.	15
98	Narragansett Pier Telegraph Exchange	Narragansett Pier	R. I.	15
99	Nashua Telephone Exchange	Nashua	N. H.	15
100	Nashville Telephone Exchange	Nashville	Tenn.	
101	National Bell Telephone Company of Maine	Portland	Me.	230
102	National Capital Telephone Company	Washington	D. C.	211
103	Neenah Telephone Company	Neenah	Wis.	10
104	Newburgh Telephone Company	Newburgh	N. Y.	125
105	New London Telephone Company	New London	Conn.	69
106	New Milford Bell Telephone Company	New Milford	Conn.	35
107	Northwestern Telephone Exchange Company	Minneapolis	Minn.	
108	Ogden Telephone Exchange	Ogden City	Utah	38
109	Omaha Electric Company	Omaha	Nebr.	179
110	Owensboro Telephone Exchange	Owensboro	Ky.	58
111	Pacific Bell Telephone Company	San Francisco	Cal.	565
112	Park City Telephone Exchange Company	Park City	Utah	12
113	Parmenter & Co.	Wooster	Ohio	11
114	Peoria Bell Telephone Exchange	Peoria	Ill.	100
115	Portland Teleph., Telegr. and Electric Light Co.	Portland	Oreg.	100
116	Providence Telephone Company	Providence	R. I.	360
117	Rome Telephone Exchange	Rome	N. Y.	60
118	Rushville Bell Telephone Company	Rushville	Ind.	
119	Rutland Telephone Exchange	Rutland	Vt.	20
120	Scranton Bell Telephone Company	Scranton	Pa.	
121	Shelby Telephone Company	Shelby	Ohio	2
122	Sidney Bell Telephone Company	Sidney	Ohio	22
123	Sioux City Telephone Exchange Company	Sioux City	Iowa	75
124	Southern Bell Telephone and Telegraph Company	Danville	Va.	740
125	Southern Massachusetts Telegr. and Teleph. Co.	New Bedford	Mass.	500

TABLE XCVIII.—TELEPHONES—General financial exhibit: 1880—Continued.

Receipts.	Expenditures.	Net income.	Dividends.	Surplus.	Deficits.
<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
3,656	3,656				61
8,000	7,000	1,000		1,000	62
520	189	331		331	63
1,520	1,445	75		75	64
1,420	1,837				65
					417
5,564	4,351	1,213		1,213	66
					67
555	226	329		329	68
230	206	24		24	69
2,495	2,923				433
					70
5,779	4,050	1,729	250	1,479	71
699	1,155				456
2,661	1,716	945		945	72
1,105	1,825				73
					74
					75
5,430	2,636	2,803		2,803	76
					77
					78
16,733	16,180	553		553	79
5,000	3,697	1,303		1,303	80
756	611	145		145	81
7,786	7,245	541		541	82
57,809	52,891	5,098		5,098	83
99,437	82,794	16,643	6,000	16,643	84
9,060	6,050	3,010		3,010	85
					946
2,124	3,070				86
2,735	2,135	600		600	87
59,635	34,878	25,257		25,257	88
2,880	1,816	1,064		1,064	89
14,841	15,945				1,104
					90
					91
540,202	518,845	21,447		21,447	92
4,600	1,260	3,400		3,400	93
44,979	35,927	9,052		9,052	94
400	300	100		100	95
					96
2,385	1,765	620		620	97
945	590	355	300	55	98
2,854	2,788	66		66	99
					100
28,555	20,938	7,617		7,617	101
24,000	28,000				4,000
1,225	625	600		600	102
5,328	5,941	287		287	103
5,511	5,947				436
					104
2,715	2,680	35		35	105
					106
2,717	5,612				2,295
12,133	7,988	4,145	1,500	2,645	107
3,557	1,690	1,867		1,867	108
					109
36,354	29,196	7,158		7,158	110
360	290	70		70	111
600	450	150		150	112
10,000	7,300	2,700		2,700	113
8,127	6,765	1,362		1,362	114
					115
18,492	13,092	5,400		5,400	116
4,186	1,769	2,417		2,417	117
					118
1,200	240	960		960	119
					120
					121
216	110	106		106	122
1,364	1,335	29		29	123
4,558	4,237	321		321	124
93,177	67,964	25,213		25,213	125
40,300	35,700	4,600	1,350	2,950	126

TABLE XCVIII.—TELEPHONES—General financial exhibit: 1880—Continued.

	Name of company.	LOCATION.		Length of wire. <i>Miles.</i>
		City.	State.	
126	Southern New York Bell Telephone Company.....	Binghamton	N. Y.	35
127	Southern Ohio Telephone Exchange Company.....	Ironton	Ohio	111
128	Southern Worcester Telephone Company.....	Southbridge	Mass	25
129	Springfield Telephone Company.....	Springfield	Mass	125
130	Stamford and Norwalk Telegraph Company.....	Stamford	Conn	85
131	Saint Joseph Telephone Exchange Company.....	Saint Joseph.....	Mo	225
132	Saint Johnsbury Telephone Exchange.....	Saint Johnsbury.....	Vt	7
133	Stafford Telephone Company.....	Stafford Springs.....	Conn	13
134	Stauben Bell Telephone Company.....	Cornuaing	N. Y.	50
135	Telephone Dispatch Company.....	Haverhill.....	Mass	1,250
136	Telephone and Telegraph Construction Company.....	Detroit	Mich	711
137	Topeka Telephone Company.....	Topeka	Kans	80
138	Union Telephone Exchange.....	Norwalk	Ohio	25
139	Vergennes Telephone Exchange.....	Vergennes.....	Vt	2
140	Warren Telephone Exchange.....	Warren.....	Pa	25
141	Watertown Telephone Company.....	Watertown.....	N. Y.	15
142	Waterbury Automatic Signal Telegraph Company.....	Waterbury.....	Conn	117
143	Western Telephone Company.....	Chicago.....	Ill .....	.....
144	Western Massachusetts Telephone Company.....	Pittsfield.....	Mass .....	.....
145	Wilkesbarre Telephone Exchange.....	Wilkesbarre.....	Pa	98
146	Wilmington Bell Telephone Exchange.....	Wilmington.....	Del	102
147	Winsted Telephone Exchange.....	Winsted.....	Conn	10
148	Winter Brothers' Telephone Exchange.....	Kingston.....	N. Y.	13

TABLE XCIX.—Balance sheet, &c.: 1880.

Name of company.	BALANCE SHEET.			
	Assets.			
	Franchises.	Cash.	Bills and accounts receivable.	Total.
Total	<i>Dollars.</i> 14,231,958	<i>Dollars.</i> 942,557	<i>Dollars.</i> 526,620	<i>Dollars.</i> 15,702,135
1 Allentown Telephone Exchange.....	3,046	.....	292	3,278
2 American Bell Telephone Company.....	9,204,853	100,753	215,130	9,520,736
3 American Bell Telegraph Company of Fulton.....	.....	.....	.....	.....
4 American Bell Telegraph Exchange of Jamestown.....	3,421	541	718	4,680
5 American District Telegraph Co. of Erie (limited).....	.....	.....	.....	.....
6 American District Telegraph Company.....	19,985	.....	2,944	22,929
7 American District Telegraph Company of Utica.....	11,861	2,254	6,305	20,420
8 American District Telegraph and Telephone Co.....	.....	.....	.....	.....
9 Ames and Nevada Telephone Company.....	.....	.....	.....	.....
10 Amsterdam Telegraph and Telephone Company.....	5,100	427	52	5,579
11 Anderson, T. B., Sedalia Telephone Exchange.....	.....	.....	.....	.....
12 Atchison Telephone Exchange Company.....	14,500	400	300	15,200
13 Ayer Telephone Company.....	.....	.....	.....	.....
14 Balch & Root.....	33,500	.....	2,820	36,320
15 Batavia Telephone Exchange.....	1,126	.....	.....	1,126
16 Beatrice Electric Company.....	1,860	.....	.....	1,860
17 Bell Telephone Company of Buffalo.....	307,250	4,147	5,696	317,093
18 Bell Telephone Company of Illinois.....	151,321	10,468	5,758	167,547
19 Bell Telephone Company of Madison.....	.....	.....	.....	.....
20 Bell Telephone Company of Missouri.....	400,000	14,575	17,628	432,213
21 Bell Telephone Company of Philadelphia.....	316,400	.....	.....	316,400
22 Black Hills Telephone Exchange Company.....	.....	.....	.....	.....
23 Bloomington Telephone Company.....	4,215	1,153	547	5,915
24 Boston and Northern Telephone Company.....	10,000	178	21,428	31,616
25 Bradford Telephone Company.....	.....	.....	.....	.....

TABLE XCIX.—TELEPHONES—Balance sheet, &c.: 1880—Continued.

Name of company.		BALANCE SHEET.			
		Assets.			
		Franchises.	Cash.	Bills and accounts receivable.	Total.
		<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>	<i>Dollars.</i>
26	Brockton Telephone Company.....	17,100	294	355	17,779
27	Brookline Telephone Exchange.....	5,000			5,000
28	Burlington District Telephone Company.....				
29	Catskill Telegraph and Telephone Company.....	2,000			2,000
30	Central District and Printing Telegraph Company.....				
31	Central District and Printing Telegraph Company.....	500,000	25,123	967	526,090
32	Central District and Printing Telegraph Company.....				
33	Central Massachusetts Telephone Company.....				
34	Central Pennsylvania Telephone and Supply Co.....	80,055	29,152	4,222	113,429
35	Central Telephone Company.....				
36	City and Suburban Telegraph Association.....	166,458	4,549	4,755	175,762
37	Cheshire County Telephone Company.....				
38	Chippewa Valley Telegraph and Telephone Co.....	19,987	325	566	11,810
39	Cleveland Telephone Company.....	78,583	455	495	79,533
40	Clinton & Lyon's Bell Telephone Company.....	32,060	98	460	32,558
41	Colorado Telephone Company.....	205,016	179	3,021	208,216
42	Columbia Telephone Exchange.....	1,200	243	36	1,479
43	Columbus (Ind.) Telephone Exchange.....				
44	Commercial Telephone Company.....	61,802	695	3,380	65,877
45	Concord Telephone Exchange.....				
46	Connecticut Telephone Company.....	162,000	3,297	11,163	176,460
47	Connersville Bell Telephone Company.....				
48	Corry Telephone Exchange.....				
49	Council Bluffs Telephone Company.....	3,602	156	2,870	6,628
50	Danbury Telephone Dispatch Company.....	2,893	3	47	2,948
51	Doboy and Union Island Telephone Company.....	1,800			1,800
52	Domestic Telegraph and Telephone Company.....	50,796	1,737	5,472	58,005
53	Dunkirk Telephone Exchange.....	2,643			2,643
54	Eastern Pennsylvania Telephone Exchange.....	65,823	902		66,725
55	Easton Telephone Exchange.....	4,600		250	4,850
56	East Tennessee Telephone Company.....	59,982	1,451	1,224	62,657
57	Elmira Bell Telephone Exchange.....				
58	Eransville Telephone Exchange.....	17,189	1,190	128	18,507
59	Fishkill Telephone Company.....	1,034	12	177	2,123
60	Freeport Telephone Exchange Company.....				
61	Fulton County Telephone Company.....	2,300	91	268	2,749
62	Galesburg Telephone Exchange.....				
63	Gallion Telephone Exchange.....				
64	Glenwood Telephone Exchange Company.....	700	75		775
65	Greenville Telephone Exchange.....				
66	Hannibal Telephone Company.....	7,189			7,189
67	Harrisburg Telephonic Exchange.....				
68	Henderson Telephone Exchange.....				
69	Hope Valley Telephone Company.....		24		24
70	Hot Springs Telephone Exchange.....	13,000			13,000
71	Hudson Telegraph and Telephone Company.....				
72	Inter-State Telephone Company.....	5,772	84	643	6,499
73	Ithaca Telephone Exchange.....	31,570	364	1,666	34,000
74	Janesville Telephone Company.....	3,899	109	105	4,023
75	Johnson, L.....	862	1,280		2,142
76	Joliet Telephone Company.....				
77	Lambertville Telephone Exchange.....				
78	Lancaster Bell Telephone Exchange.....				
79	Leadville Telephone Company.....				
80	Leavenworth Telephone Exchange Company.....	100,000	553	909	101,462
81	Litchfield Telephone Company.....		173	13,464	13,637
82	Little Rock Telephone Exchange.....				
83	Lowell District Telephone Company.....				
84	Louisiana Telephone Company.....				
85	Manchester Telephone Exchange.....	187,900	5,466	17,918	211,284

TABLE XCIX.—TELEPHONES—Balance sheet, &c.: 1880—Continued.

BALANCE SHEET—continued.				CAPITAL STOCK.				
Liabilities.				Authorized by law or charter.		Total issued.		
Capital stock.	Funded and other debt.	Profit and loss.	Total.	Number of shares.	Total common and preferred.	Number of shares.	Amount.	
Dollars.	Dollars.	Dollars.	Dollars.		Dollars.		Dollars.	
15,350	1,570	859	17,779	170	17,000	153	15,350	26
5,000			5,000					27
2,000			2,000	200	2,000	200	2,000	28
								29
								30
500,000		26,090	526,090	5,000	500,000	5,000	500,000	31
								32
100,000	1,751	11,678	113,429	50	5,000	35	3,600	33
				1,000	100,000	1,000	100,000	34
								35
100,000	48,200	27,562	175,762	2,000	100,000	2,000	100,000	36
								37
10,000	426	1,393	11,819	100	10,000	100	10,000	38
75,000	2,328	2,207	79,535	1,500	150,000	1,500	150,000	39
10,000	20,975	1,583	32,558	2,000	10,000	2,000	10,000	40
180,000	2,249	25,867	208,216	40,000	200,000	36,000	180,000	41
600	654	225	1,479					42
								43
50,000	15,000	877	65,877	500	50,000	500	50,000	44
								45
125,000	36,212	15,248	176,460	3,000	200,000	5,000	125,000	46
								47
5,000	917	681	6,628	50	5,000	50	5,000	49
2,000	522	426	2,948	400	10,000	80	2,000	50
								51
1,731		69	1,800					52
44,225		13,780	58,005	1,000	α 100,000	457	45,700	53
2,560	68	75	2,643	25	2,500	25	2,500	54
50,000	13,000	3,725	66,725	2,000	50,000	2,000	50,000	55
		4,850	4,850					56
49,000	932	12,725	62,657	800	80,000	490	49,000	57
				200	20,000	200	20,000	58
15,000	3,507		18,507	150	15,000	150	15,000	59
1,500	343	280	2,123	400	10,000	60	1,500	60
								61
2,500	249		2,749	50	5,000	50	2,500	62
								63
700		75	775					64
								65
6,500		689	7,189	200	10,000	130	6,500	66
								67
		24	24					68
13,000			13,000	1,040	20,000	520	13,000	69
								70
5,000	290	1,209	6,499	200	5,000	200	5,000	71
34,000			34,000	1,000	100,000	340	34,000	72
2,100	978	945	4,023					73
2,000		142	2,142					74
								75
								76
								77
100,000	1,462		101,462	2,000	100,000	2,000	100,000	78
7,500	500	5,897	13,897					79
								80
								81
				2,500	250,000	2,500	250,000	82
200,000	641	10,643	211,284	2,000	α 200,000	2,000	200,000	83
								84
								85

α Preferred.

TABLE XCIX.—TELEPHONES—Balance sheet, &c.: 1880—Continued.

Name of company.		BALANCE SHEET.			
		Assets.			
		Franchises.	Cash.	Bills and accounts receivable.	Total.
		Dollars.	Dollars.	Dollars.	Dollars.
86	Mansfield Telephone Exchange.....				
87	Marshalltown Telephone Company.....		5,250		5,250
88	Maryland Telephone Company.....	199,480	156	34,720	234,356
89	Mayfield, E. W.....				
90	Memphis Telephone Exchange.....				
91	Merchants' Telephone and Telegraph Company.....				
92	Metropolitan Telephone and Telegraph Company.....	481,250	662,835	112,003	1,250,088
93	Middletown Telephone Exchange.....				
94	Milwaukee Telephone Exchange Company.....	417,177	1,242	2,406	420,825
95	Montana Agency.....				
96	Montpelier Telephone Exchange.....				
97	Muncie Bell Telephone Company.....				
98	Narragansett Pier Telegraph Exchange.....				
99	Nashua Telephone Exchange.....				
100	Nashville Telephone Exchange.....				
101	National Bell Telephone Company of Maine.....	40,767	2,137	348	43,252
102	National Capital Telephone Company.....				
103	Neenah Telephone Company.....				
104	Newburg Telephone Company.....				
105	New London Telephone Company.....				
106	New Milford Bell Telephone Company.....				
107	Northwestern Telephone Exchange Company.....				
108	Ogden Telephone Exchange.....				
109	Omaha Electric Company.....	27,830	1,350	3,664	32,844
110	Owensboro' Telephone Exchange.....	5,117	132	168	5,417
111	Pacific Bell Telephone Company.....	62,088		9,527	71,615
112	Park City Telephone Exchange Company.....				
113	Parmenter & Co.....				
114	Pooria Bell Telephone Exchange.....				
115	Portland Telephone, Telegraph and Electric Light Co.....	36,763	137		36,900
116	Providence Telephone Company.....				
117	Rome Telephone Exchange.....				
118	Rushville Bell Telephone Company.....				
119	Rutland Telephone Exchange.....				
120	Scranton Bell Telephone Company.....				
121	Shelby Telephone Company.....	216			216
122	Sidney Bell Telephone Company.....				
123	Sioux City Telephone Exchange Company.....				
124	Southern Bell Telephone and Telegraph Company.....	303,280	23,065	1,838	329,083
125	Southern Massachusetts Telegraph and Telephone Co.....	65,000	1,200	400	66,600
126	Southern New York Bell Telephone Company.....				
127	Southern Ohio Telephone Exchange Company.....		568	134	7,785
128	Southern Worcester Telephone Company.....	7,083			
129	Springfield Telephone Company.....	28,061	2,063	146	30,270
130	Stamford and Norwalk Telegraph Company.....		14,805	98	14,903
131	Saint Joseph Telephone Exchange Company.....	27,751	346	1,903	30,000
132	Saint Johnsbury Telephone Exchange.....				
133	Stafford Telephone Company.....				
134	Steuben Bell Telephone Company.....	1,744	400	556	2,700
135	Telephone Dispatch Company.....				
136	Telephone and Telegraph Construction Company.....	135,773	1,678	3,511	140,962
137	Topeka Telephone Company.....				
138	Union Telephone Exchange.....	1,770		200	1,970
139	Vergennes Telephone Exchange.....				
140	Warren Telephone Exchange.....				
141	Watertown Telephone Company.....	2,808	1,159	171	3,638
142	Waterbury Automatic Signal Telegraph Company.....	12,000	8	600	12,608
143	Western Telephone Company.....				
144	Western Massachusetts Telephone Company.....				
145	Wilkesbarre Telephone Exchange.....		10,853		10,853
146	Wilmington Bell Telephone Exchange.....				
147	Winsted Telephone Exchange.....				
148	Winter Brothers' Telephone Exchange.....	1,000	296	118	1,414

TABLE XCIX.—TELEPHONES—Balance sheet, &c.: 1880—Continued.

BALANCE SHEET—continued.				CAPITAL STOCK.				
Liabilities.				Authorized by law or charter.		Total issued.		
Capital stock.	Funded and other debt.	Profit and loss.	Total.	Number of shares.	Total common and preferred.	Number of shares.	Amount.	
Dollars.	Dollars.	Dollars.	Dollars.		Dollars.		Dollars.	
5,250			5,250					86
200,000	9,098	25,258	234,356	2,000	200,000	2,000	200,000	87
								88
								89
								90
1,000,000	234,641	21,447	1,256,088	10,000	1,000,000	10,000	1,000,000	91
400,000	7,079	13,746	420,825	8,000	400,000	8,000	400,000	92
								93
								94
								95
								96
								97
								98
								99
								100
32,300	3,335	7,617	43,252	1,500	150,000	323	32,300	101
				2,000	200,000	2,000	200,000	102
								103
								104
								105
								106
				120	12,000	120	12,000	107
25,000	1,583	6,261	32,844	250	25,000	250	25,000	108
2,500	1,050	1,867	5,417	200	20,000	25	2,500	109
50,000	14,457	7,158	71,615	1,000	100,000	1,000	100,000	110
								111
								112
30,000	6,900		36,900	300	30,000	300	30,000	113
				2,000	α 100,000	1,500	75,000	114
								115
								116
								117
								118
								119
								120
100		116	216					121
								122
297,000	6,870	25,213	329,083	10,000	α 1,000,000	2,970	297,000	123
45,000	16,600	5,000	66,600	600	α 60,000	450	45,000	124
				250	250,000	250	250,000	125
6,000	1,611	174	7,785	250	25,000			126
								127
30,000	270		30,270	300	30,000	300	30,000	128
10,000		4,903	14,903	300	20,000	400	10,000	129
25,000	5,000		30,000	250	25,000	250	25,000	130
								131
1,600	585	515	2,700	64	1,600	64	1,600	132
				200	20,000	200	20,000	133
								134
								135
100,000	18,389	22,573	140,962	4,000	100,000	4,000	100,000	136
1,970			1,970	30	3,000	30	1,970	137
								138
								139
								140
2,500	1,095	43	3,638					141
7,500	4,500	608	12,608	300	7,500	300	7,500	142
								143
								144
3,911		6,942	10,853					145
								146
								147
	165	1,249	1,414					148

α Preferred.

TABLE C.—TELEPHONES—Service account: 1890.

Name of company.	Number of circuits.	Miles of wire.	Number of central offices.	Number of exchanges included in report.	Number of subscribers' stations.	Number of receiving telephones in use.	Number of battery transmitters in use.	Number of cells—open circuit battery.	Number of cells—closed circuit battery.	Number of persons employed.
Total	32,922	34,305	89	348	48,414	54,319	52,198	48,098	15,572	3,338
Allentown Telephone Exchange	43	50	1	1	78	79	79	79	2	6
American Bell Telephone Company ..	1,039	1,250	1	1	1,214	1,300	1,300	1,500	200	.....
American Bell Telegr. Co. of Fulton ..	23	8	1	1	31	31	24	24	3	.....
Amer. Bell Telegr. Exch. of Jamestown ..	76	48	1	3	123	117	112	124	3	9
Amer. Dist. Telegr. Co. of Erie (limited)	72	20	1	1	173	152	151	119	63	16
American District Telegraph Company ..	430	206	1	2	619	619	605	800	500	30
American District Telegr. Co. of Utica ..	349	100	1	1	355	358	355	800	75	24
Amer. District Telegr. and Teleph. Co. ..	5	15	1	1	100	.....	.....	75	75	8
Ames and Nevada Telephone Co.	1	18	1	3	41	41	35	.....	.....	8
Amsterdam Telegr. and Teleph. Co.	61	25	1	1	61	62	62	63	.....	5
Anderson, T. B., Sedalia Teleph. Exch. ..	63	40	1	1	107	108	100	110	.....	3
Atchison Telephone Exchange Co.	101	45	1	1	104	108	108	108	2	5
Ayer Telephone Company .....	.....	.....	.....	.....	36	34	30	32	.....	6
Balch & Root	130	106	.....	3	135	135	128	.....	128	10
Batavia Telephone Exchange	38	30	.....	1	39	42	42	42	2	3
Beatrice Electric Company	15	4	.....	1	33	34	34	34	.....	3
Bell Telephone Company of Buffalo ..	950	1,211	1	10	1,605	1,650	1,550	1,800	1,000	125
Bell Telephone Company of Illinois ..	1,200	1,000	1	9	1,260	1,350	1,350	1,350	500	235
Bell Telephone Company of Madison ..	94	80	.....	1	94	94	70	70	.....	3
Bell Telephone Company of Missouri ..	1,017	785	1	6	981	1,067	1,023	1,109	165	123
Bell Telephone Co. of Philadelphia ..	1,139	1,442	8	.....	1,608	3,075	3,014	3,000	15	113
Black Hills Telephone Co.	65	40	1	3	70	70	70	70	6	3
Bloomington Telephone Company	175	100	1	1	180	180	180	250	50	5
Boston and Northern Telephone Co. ....	.....	107	1	12	.....	8	8	.....	.....	10
Bradford Telephone Company	85	100	1	2	160	162	162	200	6	7
Brockton Telephone Company	28	50	.....	1	140	161	106	50	200	4
Brookline Telephone Exchange	50	45	.....	1	70	72	72	110	2	6
Burlington District Telephone Co.	60	35	.....	1	170	172	117	140	150	.....
Catskill Telegraph and Telephone Co. ..	32	60	.....	1	42	42	27	31	.....	6
Central District and Print. Telegr. Co. ..	67	19	.....	2	67	69	69	67	4	2
Central District and Print. Telegr. Co. ..	808	459	1	4	938	1,350	1,321	1,400	754	105
Central District and Print. Telegr. Co. ..	242	87	.....	1	261	263	265	261	23	9
Central Massachusetts Teleph. Co.	61	200	1	5	169	237	225	.....	.....	20
Central Penn'a Teleph. and Supply Co. ..	326	463	1	14	718	359	359	350	26	55
Central Telephone Company	140	267	2	8	672	673	673	502	.....	23
City and Suburban Telegr. Association ..	.....	2,100	1	7	1,000	1,600	1,600	1,600	361	90
Cheshire County Telephone Company ..	30	40	.....	1	65	70	70	70	.....	5
Chippewa Valley Telegr. and Teleph. Co. ..	101	140	1	2	109	126	124	124	8	9
Cleveland Telephone Company	518	456	.....	1	522	543	538	522	52	31
Clinton and Lyons Bell Teleph. Co.	132	207	.....	1	237	237	208	.....	.....	10
Colorado Telephone Company	900	700	1	7	964	964	960	.....	.....	55
Columbia Telephone Exchange	14	25	.....	1	29	30	30	29	1	4
Columbus, Ind., Telephone Exchange ..	.....	53	1	2	76	84	61	3	58	7
Commercial Telephone Company	900	1,000	1	3	1,051	1,486	1,385	1,500	100	90
Concord Telephone Exchange	58	43	.....	1	95	98	96	95	4	5
Connecticut Telephone Company	452	1,560	1	6	1,528	1,600	1,600	550	.....	52
Connorsville Bell Telephone Company ..	45	20	.....	1	45	45	45	.....	45	1
Corry Telephone Exchange	16	8	.....	1	31	32	22	30	.....	3
Council Bluffs Telephone Company	34	18	.....	1	67	70	70	67	7	5
Danbury Telephone Dispatch Co.	25	35	.....	1	103	106	66	3	244	7

TABLE C.—TELEPHONES—Service account: 1880—Continued.

Name of company.	Number of circuits.	Miles of wire.	Number of central offices.	Number of exchanges included in report.	Number of subscribers' stations.	Number of receiving telephones in use.	Number of battery transmitters in use.	Number of cells—open circuit battery.	Number of cells—closed circuit battery.	Number of persons employed.
Doboy and Union Island Telegr. Co.....	10					3				
Domestic Telegraph and Telephone Co.....	470			1	422	422	422			51
Dunkirk Telephone Exchange.....	48	25		1	80	80	80	80		7
Eastern Pennsylvania Teleph. Exch.....	311	526	1	4	402	410	410	410	8	15
Easton Telephone Exchange.....	54	20	1	1	58	58	55	51	4	7
East Tennessee Telephone Company.....	381	185	1	5	422	426	431			29
Elmira Bell Telephone Exchange.....	75	55		1	165	167	165	200		11
Evansville Telephone Exchange.....	231	120	1	1	231	240	240	235		12
Fishkill Telephone Company.....	25	22	1	1		55	55	16	59	4
Freeport Telephone Exchange Co.....	56	30		1	56	56	56	56		6
Fulton County Telephone Company.....		20	1	6	40	46	46	46		5
Galesburg Telephone Exchange.....	23	10	1	1	23	24	24	24		2
Galion Telephone Exchange.....	45	12		1	49	51	10		10	3
Glenwood Telephone Exchange Co.....	20	10		1	20	21	21	30	20	6
Greenville Telephone Exchange.....		15		1	44	47	46	46		2
Hannibal Telephone Company.....	62	80	1	1	122	122	122	150		8
Harrisburg Telephonic Exchange.....	43	45		1	126	126	126	112	14	10
Henderson Telephone Exchange.....	47	32		1	46	47	47	47		1
Hope Valley Telephone Company.....	3	9		1	6	6	2	2		2
Hot Springs Telephone Exchange.....	75	25		1	75	75	75		5	7
Hudson Telegraph and Telephone Co.....	170	41		1		192	142		142	6
Inter-State Telephone Company.....	7	400	1	7		6	3	3		6
Ithaca Telephone Exchange.....	55	30		1	112	114	28	35		5
Janesville Telephone Exchange.....	46	17		1	51	51	31		3	3
Johnson, L.....	63	30	1	4	63	185				14
Joliet Telephone Company.....	96	85		1	124	127	116	15		6
Lambertville Telephone Exchange.....	11	5		1	18	18	18	18		5
Lancaster Bell Telephone Exchange.....	32	18								3
Leadville Telephone Company.....	276	229		1	276	279	279	280		9
Leavenworth Telephone Exchange Co.....		175	1	2	175	175	175	175		6
Litchfield Telephone Company.....		8		1						8
Little Rock Telephone Exchange.....	152	63		1	188	188	188	322	125	7
Lowell District Telephone Company.....	600	1,500	1	6	1,600	1,500	1,500	4,000	1,000	52
Louisiana Telephone Company.....	845	478	1	3	813	829	829	813	16	30
Manchester Telephone Exchange.....	225	165		1	300	300	300			9
Mansfield Telephone Exchange.....	28	25		1	50	50	50	48	2	5
Marshalltown Telephone Company.....	110	42		1	110	115	115	175	23	5
Maryland Telephone Company.....	350	606		1	850	1,183	1,081	1,100	1,200	82
Mayfield, E. W.....	83	35		1	85	86	85	86	10	3
Memphis Telephone Exchange.....	275	120	1	1	310	310	310		320	14
Merchants' Teleph. and Telegr. Co.....	90	55	1	3	95	98	98	98		12
Metropolitan Teleph. and Telegr. Co.....	4,130	4,973	1	17	5,102	6,820	6,787	5,300	3,600	544
Middletown Telephone Exchange.....		80		1	90	90	90			9
Milwaukee Telephone Exchange Co.....	537	537		1	566	586	566	660		24
Montana Agency.....	17	25	1	1		34	2		10	
Montpelier Telephone Exchange.....	52	15		1	52	52	16	12		2
Muncie Bell Telephone Company.....	45	15		1	61	61	61	61	1	7
Naragansett Pier Telegraph Exch.....	14	15	1	2	30	30	11	15		4
Nashua Telephone Exchange.....	44	15		1	67	69	66	2	64	3
Nashville Telephone Exchange.....	56	51		1	124	128	96	96	47	

TABLE C.—TELEPHONES—Service account: 1880—Continued.

Name of company.	Number of circuits.	Miles of wire.	Number of central offices.	Number of exchanges included in report.	Number of subscribers' stations.	Number of receiving tele-phones in use.	Number of battery transmitters in use.	Number of calls—open circuit battery.	Number of calls—closed circuit battery.	Number of persons employed.
National Bell Telephone Co. of Maine.	540	230	1	6	845	1,071	1,057	1,052	130	48
National Capital Telephone Company.	190	211	1	1	568	600	600	600	500	56
Neenah Telephone Company.	25	10	1	1	25	25	25	25	1	1
Newburg Telephone Company.	134	125	1	1	175	175	202	205	205	6
New London Telephone Company.	50	60	1	2	165	169	165	161	161	11
New Milford Bell Telephone Company.	9	35	1	1	45	45	10	150	.....	.....
Northwestern Telephone Exch. Co.	657	.....	2	4	1,127	1,127	1,098	.....	.....	40
Orden Telephone Exchange	40	38	1	1	93	93	93	93	.....	3
Omaha Electric Company.	243	179	1	1	318	328	328	328	59	12
Owensboro' Telephone Exchange.	115	58	1	1	121	124	124	121	3	6
Pacific Bell Telephone Company.	831	565	1	7	1,080	1,093	1,070	2,088	2	53
Park City Telephone Exchange Co.	14	12	1	1	50	50	50	.....	.....	3
Parmenter & Co.	40	11	1	1	40	40	40	.....	.....	2
Peoria Bell Telephone Exchange.	200	100	1	3	200	203	203	200	6	11
Portland Teleph., Telegr. & Elec. Lt. Co.	4	100	1	1	150	164	.....	.....	38	10
Providence Telephone Company.	375	300	1	6	800	825	825	250	500	49
Rome Telephone Exchange.	77	60	1	1	159	156	60	60	.....	5
Rushville Bell Telephone Company.	41	23	1	1	41	41	41	41	.....	.....
Rutland Telephone Exchange.	24	20	1	1	45	45	45	45	100	2
Scranton Bell Telephone Company.	100	114	1	1	240	240	240	250	15	.....
Shelby Telephone Company.	2	2	1	1	5	7	7	7	7	4
Sidney Bell Telephone Company.	25	25	1	1	40	40	40	.....	.....	5
Sioux City Telephone Exchange Co.	100	75	1	1	.....	100	.....	.....	.....	4
Southern Bell Teleph. and Telegr. Co.	1,472	740	1	20	1,539	1,699	1,677	1,600	500	126
Southern Mass. Telegr. and Teleph. Co.	320	500	1	3	1,000	1,200	1,100	700	.....	36
Southern New York Bell Teleph. Co.	50	35	1	1	135	138	138	200	.....	10
Southern Ohio Telephone Exch. Co.	188	111	1	2	215	215	215	215	18	9
Southern Worcester Telephone Co.	18	25	1	1	75	75	68	68	.....	2
Springfield Telephone Company.	165	125	1	2	655	700	675	675	625	15
Stamford and Norwalk Telegraph Co.	75	85	1	2	225	225	220	220	4	10
Saint Joseph Telephone Exchange Co.	167	225	1	2	193	198	198	198	.....	7
Saint Johnsbury Telephone Exchange.	20	7	1	1	31	39	14	14	4	1
Stafford Telephone Company.	.....	13	1	1	28	29	22	1	21	2
Stauben Bell Telephone Company.	40	50	1	4	110	120	100	100	.....	15
Telephone Dispatch Company.	40	1,250	1	1	125	125	100	100	200	9
Teleph. and Telegr. Construction Co.	1,128	711	1	11	1,405	1,433	1,433	1,433	400	151
Topeka Telephone Company.	135	80	1	1	155	158	158	155	2	6
Union Telephone Exchange.	39	25	1	1	39	39	39	39	.....	6
Vergennes Telephone Exchange.	1	2	1	1	9	9	4	4	.....	.....
Warren Telephone Exchange.	32	25	1	1	65	70	70	70	.....	3
Watertown Telephone Company.	87	15	1	1	105	105	99	90	.....	5
Waterbury Autom. Signal Telegr. Co.	52	117	1	1	200	220	100	125	350	7
Western Telephone Company.	2,482	827	17	.....	2,482	2,500	2,500	2,500	200	102
Western Massachusetts Telephone Co.	200	249	5	4	527	527	527	.....	.....	20
Wilkesbarre Telephone Exchange.	110	98	1	1	124	126	126	126	3	10
Wilmington Bell Telephone Exchange.	86	108	1	1	98	.....	.....	.....	10	5
Winsted Telephone Exchange.	17	10	1	1	80	81	24	50	.....	3
Winter Bros. Telephone Exchange.	42	13	1	2	70	72	72	72	.....	3

OCCUPATIONS.

OCCUPATIONS.

The following list shows the total number of persons reported in the census of 1880 as pursuing gainful avocations, their division into certain classes as to age and sex, and also their distribution among the four great classes of occupations, viz: "Agriculture," "Professional and personal services," "Trade and transportation," and "Manufactures," including the mechanical and mining industries:

Classes.	Persons occupied.	AGE AND SEX.							
		All ages.		10 to 15.		16 to 50.		60 and over.	
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
All occupations	17,392,099	14,744,942	2,647,157	825,187	293,169	12,986,111	2,283,115	933,614	70,873
Agriculture	7,670,493	7,075,983	594,510	584,867	135,862	5,688,133	435,020	602,983	22,728
Professional and personal services	4,074,238	2,712,943	1,361,295	127,565	107,830	2,446,962	1,215,189	138,416	33,276
Trade and transportation	1,810,256	1,750,892	59,364	26,078	2,547	1,672,171	54,849	52,643	1,963
Manufacturing, mechanical and mining	3,837,112	3,205,124	631,988	86,677	46,930	2,978,845	577,157	123,602	7,901

It appears from the foregoing table that the aggregate number of persons returned as having gainful avocations was 17,392,099, being 34.68 per cent. of the entire population of 1880 and 47.31 per cent. of the population 10 years of age and upward.

In 1870 the total number of persons borne on the lists of occupations was 12,505,923, being 32.43 per cent. of the population of that date and 44.3 per cent. of the population 10 years of age and upward.

It thus appears that the tables of occupations in the present volume embrace a larger share of the total population than those contained in the publications of the last census.

The number of persons 10 years of age and upward was in 1870 28,228,945; in 1880, 36,761,607; an increase of 30.23 per cent. Applying this ratio of increase to the reported occupations of 1870, and by turns to the number in each of the four great classes, we should have results as follows, against which we have set the actual numbers returned in 1880:

Classes.	Occupations, 1870.	Increased by 30.23 per cent.	Actual number returned in 1880.	Excess.	Deficiency.
All occupations	12,505,923	16,286,463	17,392,099	1,105,636	.....
Agriculture	5,922,471	7,712,834	7,670,493	.....	42,341
Professional and personal services	2,684,793	3,496,406	4,074,238	577,832	.....
Trade and transportation	1,191,238	1,551,349	1,810,256	258,907	.....
Manufacturing, mechanical, and mining industries	2,707,421	3,525,874	3,837,112	311,238	.....

We see thus that if we compare the number of occupations returned in 1870, increased by the rate of increase which took place during the decade in the population over 10 years of age, with the number of occupations actually returned in 1880, we find a deficiency in the agricultural class to the extent of 42,341; an excess in the class rendering professional and personal services of 577,832, in that engaged in trade and transportation of 258,907, and in that engaged in manufactures or mechanical and mining industries of 311,238, making a net excess in all classes of occupations of 1,105,636.

There is reason to believe that the deficiency in the agricultural class and the marked increase in the class rendering professional and personal services is due, in some measure, to the reporting of persons as "laborers" simply who should have been returned as "agricultural laborers". In some parts of the country, where agriculture is in a high degree predominant, there is doubtless a certain tendency to drop the qualifying adjective and speak of "laborers" simply. Wherever it has been within the power of the Census Office to apply a correction to this error it has been done, yet there probably remains a certain amount of fallacious classification resulting from the failure of enumerators duly to characterize this class of persons.

It is also probable that the class of "laborers" embraces considerable numbers of persons who are employed in connection with manufacturing establishments with sufficient regularity to justify their inclusion in the manufacturing class, were the facts known.

If we ask how the relative excess of occupations in 1880 over 1870 is distributed according to sex, we shall find that of the total excess, viz, 1,105,636, as stated, nearly one-quarter is of females, the number of females reported as pursuing gainful occupations having increased from 1870 to 1880 in a higher ratio than the number of males. Thus—

Number of females in gainful occupations in 1870	1, 836, 288
Increased by the ratio of increase in the female population since 1870, viz, 29.03 per cent	2, 369, 302
Actual number returned in 1880	2, 647, 157
	<hr/>
Relative excess	277, 795
	<hr/> <hr/>

Of this excess about two-thirds appears in the last of the four classes indicated, showing the effect upon the employment of women produced by the extension of the factory system.

If we inquire how the same excess is distributed according to age, we shall find that a disproportionate share falls in the class between 10 and 15 years of age, showing a further effect of the extension of the factory system in the increased employment of young children. Thus—

Number of persons of both sexes between 10 and 15 years of age reported in 1870 as in gainful occupations.....	739, 164
Increased by 18.65 per cent, the ratio of increase in the population of this age from 1870 to 1880.....	877, 018
Actual number reported.....	1, 118, 356
	<hr/>
Relative excess	241, 338
	<hr/> <hr/>

Although the tables of Occupations, as we have seen, embrace a larger share of the population than in 1870, they still omit, as was to be expected, more than half the population of 10 years of age and upward.

The following table makes comparison between the number of inhabitants of either sex in each of the periods of life, taken for the purposes of these tables, and the corresponding number of persons returned as pursuing gainful occupations:

	Aggregate.		TOTAL 10 YEARS AND UPWARD.			
			Male.		Female.	
Population (10 years of age and upward)...	36,761,607		18,735,980		18,025,627	
Number on occupation tables.....	17,392,099		14,744,942		2,647,157	
	19,369,508		3,991,038		15,378,470	

	10 TO 15.		16 TO 59.		60 AND OVER.	
	Male.	Female.	Male.	Female.	Male.	Female.
Population (10 years of age and upward).	3,376,114	3,273,369	13,907,444	13,377,002	1,452,422	1,375,256
Number on occupation tables.....	825,187	293,169	12,986,111	2,283,115	933,644	70,873
	2,550,927	2,980,200	921,333	11,093,887	518,778	1,304,383

It will be seen that the total number of males 10 years and upward unaccounted for in these tables is 3,991,038; of females, 15,378,470.

The number of persons of the two sexes between 10 and 15 years thus unaccounted for, viz, 2,550,927 males and 2,980,200 females, is substantially equal to the number of children attending school who do not, through any considerable portion of the year, pursue any gainful avocation. There is, of course, a residue consisting of invalid children, of vagrants, of inmates of institutions of charity or correction, etc.

Between 16 and 59 the number of males unaccounted for is 921,333. This number is made up chiefly of the following classes: First, those students who are pursuing courses of instruction beyond the age of 16; secondly, those who are afflicted by permanent bodily or mental infirmities, disqualifying them from participating in the industry of the country; third, the members of the criminal and pauper classes. The number of men of this period of life, not disabled, who are not returned as of some occupation by reason of inherited wealth or of having retired from business is hardly important enough in this country to be mentioned. The number of females between 16 and 59 not accounted for in these tables is naturally vastly larger, and amounts to 11,093,887. That body is made up of the three classes just mentioned when speaking of the males of this period of life, and of the far greater classes of women—wives, mothers, or grown daughters, keeping house for their families or living at home without any special avocation.

The explanation of the number of persons 60 years of age and upward returned without occupation is so manifest as not to require to be even alluded to. Of these there are: of males, 518,778; of females, 1,304,383.

These tables embrace only gainful and reputable occupations. They do not seek to account for those persons, in whatever sphere of life, who have no recognized avocation for which they receive compensation in the shape of wages, salary, or profits, or derive products of a merchantable character. All persons, moreover, whose means of livelihood are criminal, or, in the general judgment of mankind, shameful, are excluded.

Comparative increase in occupations and in population, 1870 to 1880.

States and territories.	ALL OCCUPATIONS.			Increase in population.
	1880.	1870.	In-crease.	
The United States	Number. 17, 392, 099	Number. 12, 505, 923	Per ct. 39	Per ct. 30
Alabama	492, 790	365, 258	35	27
Arizona	22, 271	6, 030	269	319
Arkansas	280, 692	135, 949	92	66
California	376, 505	238, 048	58	54
Colorado	101, 251	17, 583	476	387
Connecticut	241, 333	193, 421	25	16
Dakota	57, 844	5, 887	883	853
Delaware	54, 580	40, 313	35	17
District of Columbia	06, 024	49, 041	26	35
Florida	91, 536	60, 703	51	44
Georgia	597, 862	444, 678	34	30
Idaho	15, 378	10, 873	43	117
Illinois	999, 780	742, 015	35	21
Indiana	635, 080	459, 359	38	18
Iowa	528, 302	344, 270	53	30
Kansas	322, 285	123, 852	160	173
Kentucky	519, 854	414, 593	25	25
Louisiana	363, 228	256, 452	42	29
Maine	231, 993	208, 225	11	4
Maryland	324, 432	258, 543	25	20
Massachusetts	720, 774	579, 844	24	22
Michigan	563, 204	404, 164	41	38
Minnesota	265, 125	132, 037	92	78
Mississippi	415, 506	318, 850	30	37
Missouri	692, 959	505, 556	37	26
Montana	22, 255	14, 048	58	90
Nebraska	152, 014	43, 837	248	268
Nevada	32, 233	26, 911	20	47
New Hampshire	142, 468	120, 168	19	9
New Jersey	396, 870	290, 036	34	25
New Mexico	40, 822	29, 361	39	30
New York	1, 884, 645	1, 491, 018	26	16
North Carolina	480, 187	351, 299	37	31
Ohio	994, 475	840, 889	18	20
Oregon	67, 343	30, 651	120	92
Pennsylvania	1, 456, 067	1, 020, 544	43	22
Rhode Island	116, 979	88, 574	32	27
South Carolina	392, 102	263, 301	49	41
Tennessee	447, 970	367, 987	22	23
Texas	522, 133	237, 126	120	94
Utah	40, 055	21, 517	86	66
Vermont	118, 584	108, 763	9	1
Virginia	494, 240	412, 665	20	23
Washington	30, 123	9, 700	209	214
West Virginia	176, 199	115, 223	53	40
Wisconsin	417, 455	292, 808	43	25
Wyoming	8, 884	6, 645	34	128

Several things are well worthy of note in the foregoing table:

First. That in certain states and territories the ratio of increase in population is greater, in some cases much greater, than the ratio of increase in gainful occupations reported. This is due to the fact that these communities are losing something of the frontier character and taking on more of the social and domestic character of older communities. Thus we have Arizona gaining 319 per cent. in population and only 269 per cent. in reported occupations; Idaho, 117 against 43; Kansas, 173 against 160; Montana, 90 against 58; Nebraska, 268 against 248; Nevada, 47 against 20; Washington, 214 against 209; Wyoming, 128

against 34. In a word, these figures indicate the growth of homes with women and children, in the place of the lumbering camp or the ranch, occupied by men only, all of whom were workers.

Second. In another group of states and territories, where we must suppose that the same force which has produced the above noted effects is in operation, the rapid incoming of immigrants during the decade, predominately males of adult years, has overpowered this force and caused an increase in the proportion of bread-winners greater than the increase in population. Such are Arkansas, Colorado, Dakota, Iowa, Minnesota, New Mexico, Oregon, Texas, and Utah.

Third. Throughout the country generally we have an increase of occupations reported greater than the increase of population. In part this is probably due to the closer enumeration conducted under the provisions of the act of March 3, 1879, which, by making the districts smaller, secured in a much higher degree than had previously been attained that house-to-house canvass which is essential to a correct census, especially as regards the details of enumeration.

In a still higher degree probably the increase of reported occupations is due to the growth of the factory system, to the minuter organization of industry, and to the resulting differentiation of occupations, allowing women and children to find places where they can be useful and earn a livelihood, both in trade and in manufactures, more readily than was the case ten years ago.

We group as follows the states and territories in their inverse rank, according to the proportion of the total population found in gainful occupations :

	Percentage of occupations to total population.
Utah, West Virginia	28
Tennessee	29
Ohio	31
Arkansas, Illinois, Indiana, Kansas, Kentucky, Missouri, Wisconsin	32
Iowa, Minnesota, Texas, Virginia	33
Florida, Nebraska, New Mexico, North Carolina, Pennsylvania..	34
Maryland, Michigan, New Jersey	35
Maine, Vermont	36
Delaware, Mississippi, New York	37
District of Columbia	38
Alabama, Connecticut, Georgia, Louisiana, Oregon, South Carolina	39
Massachusetts, Washington Territory	40
New Hampshire	41
Rhode Island	42
Dakota, Wyoming	43
California	44
Idaho	48
Colorado, Nevada	52
Arizona	55
Montana	57

We note here, first, that in the great prosperous grain-raising states there is a tendency to keep down the proportion of bread-winners (see the states having less than 33 per cent.); second, that the tendency in the cotton-raising states is to a higher percentage of bread-winners, women and children going more largely into the fields; third, that the manufacturing states have also a high percentage, owing to the employment of these classes in shops and factories; and fourth, that the bread-winners reach their largest proportion in the mining and grazing states and territories, owing both to the character of the industries there pursued and also to the small number, relatively, of women and children in those regions.

STATISTICS OF OCCUPATIONS IN CITIES.

The following table exhibits the total number of occupations reported in each of the principal fifty cities of the United States, and the proportion existing between that number and the total number of inhabitants of both sexes and all ages:

City.	Population.	Total in occupation tables.	Percentage.	City.	Population.	Total in occupation tables.	Percentage.
	<i>Number.</i>	<i>No.</i>			<i>Number.</i>	<i>No.</i>	
Albany, N. Y.	90,758	32,153	35	Lynn, Mass.	38,274	16,728	44
Allegheny, Pa.	78,582	25,958	33	Milwaukee, Wis.	115,587	40,900	35
Atlanta, Ga.	37,409	17,078	46	Minneapolis, Minn.	46,887	21,902	45
Baltimore, Md.	532,213	180,364	33	Nashville, Tenn.	43,350	16,738	39
Boston, Mass.	362,839	149,194	41	Newark, N. J.	136,508	49,066	36
Brooklyn, N. Y.	566,663	269,065	37	New Haven, Conn.	62,882	24,155	38
Buffalo, N. Y.	155,134	54,647	35	New Orleans, La.	216,090	78,336	36
Cambridge, Mass.	62,669	20,021	32	New York, N. Y.	1,206,299	513,277	43
Camden, N. J.	41,659	15,085	36	Paterson, N. J.	51,031	22,570	44
Charleston, S. C.	49,984	20,225	41	Philadelphia, Pa.	847,170	348,900	41
Chicago, Ill.	503,185	191,760	38	Pittsburgh, Pa.	156,389	52,173	33
Cincinnati, Ohio.	255,139	100,454	39	Providence, R. I.	104,857	45,878	42
Cleveland, Ohio.	160,146	56,919	36	Reading, Pa.	43,278	15,023	36
Columbus, Ohio.	51,647	17,737	36	Richmond, Va.	63,600	24,550	39
Dayton, Ohio.	38,078	14,184	37	Rochester, N. Y.	89,366	34,270	38
Denver, Colo.	35,629	15,737	44	Saint Louis, Mo.	350,518	139,985	40
Detroit, Mich.	116,940	39,245	34	Saint Paul, Minn.	41,473	17,809	43
Fall River, Mass.	48,961	22,685	46	San Francisco, Cal.	233,959	104,650	45
Hartford, Conn.	42,015	17,212	41	Scranton, Pa.	45,850	16,829	37
Indianapolis, Ind.	75,056	27,966	37	Syracuse, N. Y.	51,792	20,409	39
Jersey City, N. J.	120,722	42,356	35	Toledo, Ohio.	50,137	17,001	35
Kansas City, Mo.	55,785	25,081	45	Troy, N. Y.	56,747	23,745	42
Lawrence, Mass.	39,151	19,153	49	Washington, D. C.	147,293	57,263	39
Louisville, Ky.	123,733	45,244	37	Wilmington, Del.	42,478	19,281	45
Lowell, Mass.	59,475	29,781	50	Worcester, Mass.	58,291	23,535	39

It will be observed that the proportion between the number of persons pursuing gainful occupations and the total population enumerated varies in the several cities in the foregoing list from 33 per cent. as a minimum to 50 per cent. as a maximum, *i. e.*, from one-third to one-half—a much narrower range than we noted in the case of the states.

We group the cities below in their rank in the respect indicated:

	Percentage.
Allegheny, Pittsburgh.	33
Detroit.	34
Albany, Buffalo, Jersey City, Milwaukee, Toledo.	35
Camden, Cleveland, Columbus, Newark, New Orleans, Reading.	36
Brooklyn, Dayton, Indianapolis, Louisville, Scranton.	37
Cambridge, Chicago, New Haven, Rochester.	38
Baltimore, Cincinnati, Nashville, Richmond, Syracuse, Washington, Worcester.	39
Saint Louis.	40
Boston, Charleston, Hartford, Philadelphia.	41
Providence, Troy.	42
New York, Saint Paul.	43
Denver, Lynn, Paterson.	44
Kansas City, Minneapolis, San Francisco, Wilmington.	45
Atlanta, Fall River.	46
Lawrence.	49
Lowell.	50

The facts which explain these wide variations in the proportions between the number of persons pursuing gainful occupations and the total population of a city are many. The most important may be grouped under three heads: first, the deviations of the respective populations of these cities to the one side or to the other from the type of a normal population, considered as to age and sex; (a) secondly, the character of the prevailing occupations of the several cities, as determining the question whether women and children shall be largely employed or not; thirdly, social causes, affecting the employment of women in avocations of a certain class, or affecting the employment of children under a certain age.

The variation of the population of a city either way from the type may affect the proportion of the inhabitants who shall be employed in gainful occupations, either to diminish or to increase it, according to circumstances. Thus, going to a far western city like Kansas City, Minneapolis, or Denver, we shall find the population composed more largely of males than of females, and containing a larger proportion of adults of the working age than is found in a normal population. This is due to the fact that great numbers of the inhabitants of any one of these cities have recently gone thither to seek their fortunes, leaving the women, the children, and the aged behind in the older communities from which they came. Here a high percentage of actual bread-winners is naturally expected. On the other hand, turning to Lowell, Lawrence, and Fall River, where females and children are largely in excess, we find an even higher percentage of bread-winners. This seems like a contradiction. The explanation is found in the factory industries of these cities, which provide employment for enormous numbers of women, who in a western city would be living at home keeping the house, and of children who, under the same conditions, would be attending school or living at home without gainful occupation.

The influence of the prevailing industries of a city upon the proportion of bread-winners is too familiar to require to be illustrated. The two great iron-making cities of Allegheny and Pittsburgh keep only a bare third of their population at work, because the labor of women and children would be of little account. Cleveland, another great iron-making city, has but 36 per cent. of its population engaged in gainful occupations; but a great center of the textile industries, like Paterson, Fall River, Lawrence, or Lowell, keeps nearly or quite one-half of its men, women, and children at work. Philadelphia, which is both a great weaving city and a center of heavy manufactures, especially of iron, stands in a mean between the two, having 41 per cent. of its population engaged in gainful occupations.

Among the social causes adverted to as affecting the propor-

a It may be said that this deviation is due to the cause next to be mentioned, viz, the prevailing occupations of the city, and in part this would be true, and in part not. It would be much less true of a city than of a state. Thus, we might suppose the industries of Saint Paul or Minneapolis to remain absolutely the same in character during the next ten years, and yet at the end of that period the proportion of bread-winners would be smaller than now, simply because the city would be ten years older, having, by consequence, a larger proportion of women and children. Again, suppose some factory industry to be introduced into a city which had had none previously, say the manufacture of straw goods or of hosiery; we should doubtless have a speedy effect produced upon the population of the city through the accession of women and children coming to work in the shops, but we should have a much larger effect produced upon the proportion of bread-winners, through the entry into the shops of women and children previously resident. A thousand might come to the shops from outside the city, while three thousand or five might enter the shops from within the city.

tion of bread-winners may be mentioned the school system. In some cities the public schools are much more highly organized, more attractive, and are supported by a stronger public sentiment than in others. In the former class of cases we should look to see the influence of the schools acting in diminution of the number of young persons of either sex engaged in gainful occupations.

REMARKS UPON THE LIST OF OCCUPATIONS AND UPON THE NUMBERS RETURNED UNDER THE SEVERAL TITLES.

THE CLASSIFICATION ADOPTED.—On this point we quote the language of the reports of the census of 1870:

The plan pursued in the compilation of these tables has been to refer every specification of occupation to some grand division of industry; and within each of such grand divisions to constitute as many distinct subdivisions as the nature of the material furnished by the enumerators would allow to be formed with a reasonable approach to completeness, subject, however, to certain conditions which will be presented in the further course of these remarks.

The Superintendent is familiar with the reasons which have induced many European statisticians to abandon the grouping of occupations according to such assumed grand divisions of industry as agriculture, manufactures, trade, etc., and to resort instead to a system of expressing the employments of the people through a large number of minute and precise specifications, susceptible of being combined and recombined successively, according to different ideas or theories of classification; but he is convinced that the conditions and limitations of industrial statistics, at least within the United States, will not allow of such nicety in the treatment of material, and, moreover, that the highest purposes and the largest uses of such statistics require something closely approaching the plan of treatment adopted in the following tables.

It is perhaps not necessary to pursue the subject, but it may be interesting to note two things in this connection.

First. That the subdivision of labor and the organization of industry in the United States really correspond rather to the classification of occupations adopted in these tables than to the nicer distinctions of the foreign statisticians. Indeed, instead of throwing away valuable discriminations, the difficulty is so to treat the returns as reasonably to fill the classes here given. Whoever will consider the almost utter want of apprenticeship in this country, the facility with which pursuits are taken up and abandoned, and the variety, and, indeed, seeming incongruity of the numerous industrial offices that are frequently united in one person, will appreciate the force of this argument. For example, the distinctions in the profession of the law, which are known and recognized decisively in England and on the continent, are not maintained in this country except in a few great cities, and there only in exceptional cases. The same person with us is law-scrivener, collector of debts, prosecutor of claims, counselor, attorney, possibly, also, judge. Again, the organization of domestic service in the United States is so crude that no distinction whatever can be successfully maintained. A census of occupations, in which the attempt should be made to reach anything like European completeness in this matter, would result in the return of tens of thousands of "housekeepers" and hundreds of thousands of "cooks" who were simply "maids of all work", being the single servants of the families in which they were employed. Again, the British distinction between the merchant and the shopkeeper is impossible in

this country. If anything whatever could be predicated of the two classes in this respect, it would be that the smaller dealers cling more pertinaciously to the larger title. Still, again, the British "farmer" is wholly unknown with us. The American farmer is, at least in the vast proportion of instances, the owner of the land he cultivates.

Second. It is not deemed practicable in the United States that the average enumerator shall, in the course of a canvass necessarily hurried, fill a very large number of subdivisions with appropriate entries without much loss and confusion. Of course accuracy of *definition* is of no value if the *content* be inadequate. It may even be doubted whether the enumerators of any country are capable of carrying out thoroughly any body of instructions respecting the returns of occupations which require more than the plain and simple characterization of each main employment in the common phrase of the working people themselves.

The employments reported in the census have been, for the purposes of this publication, brought under four general titles, viz, Agriculture, Manufactures and Mining, Trade and Transportation, Personal and Professional Services, the latter having somewhat of a residual relation to the others, and yet in the main a substantial character, and with limits not hard to define.

The reason for making a common title for Trade and Transportation must be sufficiently evident without explanation.

Mining, which stands in idea between agriculture and manufactures, in that, like agriculture, it obtains the raw material of subsequent industrial processes, while, like manufactures, its agencies and forces are chiefly mechanical, not chemical, has, for convenience mainly, been assigned to the group of Manufactures.

A still stronger consideration of convenience, though with somewhat less clear considerations of propriety, induced the Superintendent to place the fishing industry in the category of Manufactures. The number of persons engaged in the fisheries will always and inevitably be below the fact, for the reasons, first, that this industry is usually pursued for a season only, while, for the remainder of the year, the fisherman follows some other gainful avocation, under which he will preferably be reported; second, that no inconsiderable proportion of the persons actually engaged on the water in this pursuit at the time of the enumeration, having no families to report them, are entirely omitted from the census under the American system; third, that where fisheries are carried on in vessels larger than the ordinary row or sail boat the hands employed are generally known, not as fishermen, but as sailors. The last statement holds true of the vast majority of all persons who are engaged in the whale, cod, and mackerel fisheries. It is true that, according to the theory of a census of occupations taken in the interest of industrial science mainly, vessels so employed should, with all their hands, be excluded from the class of transportation and be returned as engaged in the fisheries; but this distinction is one which it appears hopeless to make. We are compelled, therefore, to accept the result that the great majority of persons engaged in the fisheries are returned as sailors merely. The residue are not worth constituting into a separate grand division of industry, and have, therefore, been carried into the manufacturing class.

THE COMPLETENESS OF THESE TABLES.—Comparison of the numbers reported in the tables of Occupations with the numbers found under corresponding titles in the tables of Manufactures, will discover discrepancies of very important extent which require to be here accounted

for, not only in justification of these tables, but for the additional light which such an investigation throws upon the industrial capacity of the country.

Not only do important discrepancies exist, but they are found to be of two kinds, of diametrically opposite direction. In one class of cases the numbers reported in the tables of Occupations appear to be too large; in the other, too small.

First, however, it needs to be stated just what constitutes a discrepancy. A failure in the numbers reported in the one place and in the other to balance exactly is not a discrepancy; on the contrary, this is to be expected; and if the numbers are found to be in excess in the proper set of tables, and to be in excess to only the proper extent, this furnishes statistical proof of a high character. The tables in which the numbers should thus be *generally* found in excess are the Occupation tables. The reason for the excess being found in these tables and not in the others is, that the schedule of manufactures gives an *average* return of the number of "hands employed", while the statistics of occupations are taken from a count of individuals upon the population schedule, and present, therefore, a *maximum* return, embracing, as they do, artisans of every class out of employment, temporarily disabled, or for some other reason not included in the actual return of any establishment.

The degree to which such excess should extend will depend, within certain limits, upon the nature of the special occupation, as well as upon the general condition of manufacturing industry throughout the country at the time.

First. Those cases where the numbers in the tables of Occupations do not exceed those in the tables of Manufactures, but even fall below them. Instances of this kind are principally confined to the returns of factory operatives.

A portion of these omissions, undoubtedly, may be accounted for by the large number returned under the head of "Mill and factory operatives not specified", as well as by the number of "Employés of manufacturing establishments not specified"; but, in the main, the explanation of the discrepancies is found in the fact that women and children employed in factories are omitted in large numbers.

Thus, omissions may take place either through the failure of the enumerators to ask the questions relating to occupation concerning such persons, assuming that they have no avocation outside their homes, or from the indisposition of the persons themselves or the heads of the families to speak of them as in employment. Especially in the case of children, who are part of the time in school and part of the time in the mill, would the mother or father be likely to give a preference to the former over the latter mode of statement, particularly when, as in tens of thousands of cases the country over, the child comes within the period of life respecting which there is a *legal requirement* of school attendance.

When we come, however, to occupations pursued mainly by adults, and, indeed, almost exclusively by adult males, like the trades of carpenter, blacksmith, mason, or printer, or the professions of lawyer, physician, or clergyman, the force of this cause is no longer felt.

Second. Those instances where the numbers appearing in the tables of Occupations exceed those in the tables of Manufactures by more than the probable or possible difference between a maximum and an average return. Unlike the class first noted, these discrepancies affect mainly the statistics of those occupations which are pursued singly, or by twos

and threes, out of large mills and factories, and even, in a considerable degree, out of shops. Discrepancies of this character in no degree discredit the statistics of occupations. They arise from the fact that the return of "productive industry" is not, as indeed it is not expected to be, a complete return of the mechanical production of the country.

The census attempts the enumeration of mechanical industry only as it is carried on IN SHOPS, and thus fails to embrace that large body of individual labor which is not attached to distinct "establishments of productive industry". Moreover, the census law establishes a minimum (namely, the value of \$500 annually), below which the production of shops shall not be returned.

Thus the trades of blacksmith, carpenter, mason, painter, and, in a somewhat smaller degree, of plumber, locksmith, harness-maker, are largely pursued by persons working singly and not occupying for the purpose of their respective trades what would be popularly recognized as "an establishment of productive industry", perhaps having only a chest of tools in some room of the house, and perhaps also engaged in their trades for only one season of the year and producing to less than the value of \$500. The census has never obtained a full report of the production of these trades so far as they are pursued out of shops or factories.

Again, in making such comparisons between the tables of Occupations and those of Manufactures great care must be taken to ascertain whether the titles taken for the purpose really correspond. In some cases, where the apparent correspondence is greatest, the quantities are, in fact, not commensurable. An example may be found in the brick and tile manufacture. It would, at first, seem that the "hands employed" should answer to the "brick- and tile-makers" in the tables of Occupations; but, on the contrary, a considerable portion of the hands employed in large brick-yards, not infrequently exceeding indeed the number of craftsmen, are classed and known as common laborers, and are so returned in the census.

In the same way a factory producing fine furniture may report 100 hands employed, but of these only 80 may be cabinet-makers in the usual, and indeed proper, sense of that term, while the others may be simply unskilled laborers, or painters, varnishers, and locksmiths. In a currier's shop not all the hands are necessarily curriers, in the craftsman's sense of that term. All textile factories employ persons who are not "operatives"—yard hands, watchmen, millwrights, or mechanics, and simple laborers, it may be, in considerable numbers.

There are, in addition, certain industries respecting which peculiar difficulties arise, from the distinct nature of the several avocations pursued under one roof in the same establishment. Thus, it might be supposed that the manufacture of "agricultural implements" is sufficiently distinct to secure a reasonably close comparison between the number of "hands employed" and the number of "agricultural implement makers" borne on the tables of Occupations. But this is not so. A large establishment producing agricultural implements is really divided into a number of shops or factories, where perfectly distinct trades are carried on. There is the foundery, where the iron parts of the machine are cast, and the men working herein will report their occupation as that of foundrymen. There are carpenters' shops, where the wooden parts are made and shaped by carpenters, who call themselves by this term, and no other. There are also machine shops, paint shops, etc., where the artisans employed know themselves as machinists or mechanics, or as painters and varnishers, and not as makers of agricultural implements. As a result of the peculiarities of this branch of industry, the "hands

employed" in the statistics of Manufactures will exceed many times over the number of persons reporting themselves as "agricultural implement makers". An examination of the schedules from those towns where this industry is pursued will reveal the operation of this cause.

On the other hand, the very success with which specific statements of occupation are, in most cases, obtained serves to deplete some general title so far that the figures, if not interpreted in view of the specific titles, would be simply grotesque. Thus, the census reports but 7,858 "mechanics". As a matter of fact, there are many hundreds of thousands of mechanics in the United States, but all but the small residue mentioned have been reported in connection with individual mechanical trades. The small number of mechanics, therefore, instead of showing a failure of the enumeration in this respect, shows a rather striking degree of success in securing specific descriptions of the avocations of the people.

We have already adverted to the probable inclusion of a considerable number of laborers who are mainly engaged in agriculture among the class performing "personal and professional services" through the failure of the returns to indicate their avocations more precisely. In much the same way doubtless no small number of "messengers", "laborers," "watchmen," and "clerks", who are really employed in those capacities in connection with manufacturing establishments, have been transferred to other classes through the lack of more precise information regarding the field of their work.

INCOMPLETE SUBDIVISION OF EMPLOYMENTS.—In addition to the apparent deficiencies or discrepancies which have been noted, one general remark will suffice in explanation of many of the entries in the tables in respect to the accuracy of which question may naturally arise.

It must be borne in mind that the number of persons who are reported under a certain specified occupation does not necessarily embrace all the persons who perform the duties usually associated with that title, but only those who discharge such duties to the exclusion of other gainful occupations, or, at least, as their principal or sole professed means of support.

The organization of labor and the subdivision of industry vary in respect to completeness and minuteness with each successive community. As communities advance in industrial character functions become separated and distinct occupations become recognized, and this country, from its peculiar conditions, presents almost every degree between the two extremes of industrial development in this particular. It is common to find on the returns from the present territories, and even some of the present states of the Union, such entries as these: "Carpenter and miner," "Blacksmith and carpenter," "Blacksmith and miner," and in many of the communities of the land it is difficult to draw distinctions much finer than those between the agricultural, the mining, the mechanical, and the commercial pursuit or profession. Indeed, even this is not always practicable, since it is matter of notoriety that in many of the states of the Union, and those not among the newest, the occupations of carpenter and farmer, or blacksmith and farmer, or farmer and fisherman, are frequently united in one person. In large and more prosperous communities a clear separation between such occupations takes place; yet the carpenter, for instance, in nine out of ten counties in the United States, performs half a dozen functions which in cities are recognized as belonging to distinct trades.

The same general process occurs in agricultural, commercial, and professional employments. Thus the tables show 112,840 traders and dealers whose branch of trade is not specified.

The want of specifications here is not due to the neglect of enumerators, but to the fact that these persons so characterized are actually selling agricultural implements, books and stationery, boots and shoes, etc., through pretty much the entire line of articles sold by those other dealers whose departments are defined because the communities in which they dwell and deal are sufficiently large to allow of the minute subdivision of trade.

If, therefore, we look at those occupations which emerge as distinct employments only in communities where the organization of industry and the subdivision of labor are carried to a high degree, the number of persons engaged will appear to be impossibly small unless the above considerations are borne carefully in mind.

ANOMALOUS ENTRIES.—Other seeming discrepancies, which demand at least an allusion here, occur where persons are returned as of certain special occupations in states where it is notorious that the industries represented are not carried on; or, again, where persons, not more than one, two, or five in number, are returned in a state under a description which implies a large body of workmen. An adequate explanation of all cases of this general nature is found in the consideration that the census takes account of persons where they are actually residing, and assigns them to their habitual occupation, whether it is being at the time pursued or not.

In the enumeration of hundreds of thousands of persons out of health, or out of employment, traveling, or visiting friends in other states, it is inevitable that such apparent anomalies should arise.

N. B.—Each employment specified in the following tables must be understood in connection with the class or grand division of industry under which it is placed. To many, and indeed most, of the specifications of occupation this warning, in the nature of the case, does not apply.

Others, however, will be misinterpreted without a reference to the more general title. Thus, "clerks and copyists" appear under the head "Personal and professional services". These are clerks to lawyers, clerks to civil engineers, copyists not attached to commercial houses or manufacturing establishments, etc. "Clerks" also appear under the head of "Manufactures and mining", so far as persons are employed in a purely clerical capacity in those branches of industry; while under the title of "Trade and transportation" "clerks" appear several times as "clerks in stores", "clerks in banks," "clerks in railroad offices," etc.

In publishing these tables of the occupations of the people too great credit cannot be awarded to Mr. Edwin B. Smith, of Massachusetts, who has from the first had charge of the compilations relating to occupation, and on whom has rested the responsibility of all the details of classification and arrangement.

It would be difficult to convey an adequate impression of the care and labor involved in this work.

TABLE CI.—OCCUPATIONS—Number and sex of persons

States and Territories.	POPULATION, 10 YEARS AND OVER.			ENGAGED IN ALL CLASSES OF OCCUPATIONS.			ENGAGED IN AGRICULTURE.		
	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.
The U. S.	36,761,607	18,735,980	18,025,627	17,392,099	14,744,942	2,647,157	7,670,493	7,075,983	594,510
Alabama.....	851,780	414,095	437,685	492,790	368,734	124,056	380,630	291,477	89,153
Arizona.....	32,522	24,267	8,255	22,271	21,800	471	3,455	3,423	32
Arkansas.....	531,876	278,185	253,691	260,692	230,076	30,616	216,655	195,002	21,653
California.....	681,062	425,179	255,892	376,505	348,303	28,202	79,396	78,785	611
Colorado.....	158,220	110,896	47,324	101,251	96,472	4,779	13,539	13,462	77
Connecticut..	497,303	242,392	254,911	241,333	192,663	48,670	44,026	43,936	90
Dakota.....	99,849	64,343	35,506	57,844	54,993	2,851	28,568	28,368	160
Delaware.....	110,856	56,003	54,853	54,580	46,652	7,928	17,849	17,609	240
Dist. Columbia	136,907	63,429	73,478	66,624	46,966	19,658	1,464	1,445	19
Florida.....	184,650	93,475	91,175	91,536	73,752	17,784	58,731	47,465	11,266
Georgia.....	1,043,840	509,830	534,010	597,802	445,530	152,332	432,204	320,856	102,348
Idaho.....	25,005	17,910	7,095	15,578	15,287	291	3,858	3,847	11
Illinois.....	2,269,315	1,178,131	1,091,184	999,780	893,679	106,101	436,371	433,796	2,575
Indiana.....	1,468,095	752,405	715,690	635,080	583,658	51,422	331,240	329,614	1,626
Iowa.....	1,181,641	623,875	557,966	528,302	483,457	44,845	302,557	302,171	386
Kansas.....	704,297	388,148	316,149	322,285	302,934	19,351	206,080	205,234	846
Kentucky.....	1,163,498	586,424	577,074	519,854	465,432	54,422	320,571	315,445	5,126
Louisiana.....	649,079	322,004	327,066	363,228	268,176	95,052	205,306	147,538	57,768
Maine.....	519,669	258,587	261,082	231,993	198,405	33,528	82,130	81,881	249
Maryland.....	695,364	341,621	353,743	324,432	265,622	58,800	90,927	89,176	1,751
Massachusetts	1,432,183	681,786	750,397	720,774	546,591	174,183	64,973	64,746	227
Michigan.....	1,236,686	659,101	577,685	569,204	514,191	55,013	240,319	239,349	970
Minnesota.....	559,977	307,449	252,528	255,125	230,048	25,077	131,535	130,817	718
Mississippi.....	753,693	375,561	378,132	415,506	305,089	110,417	389,938	352,324	37,614
Missouri.....	1,557,681	816,962	740,669	692,959	630,016	62,943	355,297	351,681	3,616
Montana.....	31,989	24,558	7,431	22,255	21,748	507	4,512	4,504	8
Nebraska.....	318,271	181,022	137,249	152,614	142,159	10,455	90,507	89,841	666
Nevada.....	50,666	36,211	14,455	32,233	30,730	1,503	4,180	4,146	34
N. Hampshire.....	286,188	139,807	146,381	142,468	112,340	30,128	44,499	44,299	199
New Jersey....	865,591	426,451	439,140	396,879	330,103	66,776	50,214	58,819	395
New Mexico... .	87,966	48,266	39,700	40,822	38,560	2,262	14,139	14,025	114
New York.....	3,581,428	1,950,059	2,031,369	1,884,645	1,524,264	360,381	377,469	375,213	2,247
North Carolina	959,951	465,268	494,683	480,187	393,211	86,976	360,037	314,228	45,790
Ohio.....	2,399,367	1,209,435	1,189,933	994,475	881,856	112,639	397,435	396,129	1,306
Oregon.....	130,565	81,031	49,534	67,343	64,564	2,779	27,091	27,000	91
Pennsylvania..	3,203,215	1,591,056	1,612,159	1,456,067	1,230,084	216,983	301,112	299,899	1,213
Rhode Island..	220,461	104,836	115,625	116,979	87,120	29,859	10,945	10,910	35
South Carolina	667,456	324,364	343,092	392,102	272,015	120,087	294,692	268,672	26,020
Tennessee.....	1,062,130	524,569	537,571	447,970	391,562	56,408	294,153	275,020	19,133
Texas.....	1,064,136	568,928	495,268	522,133	463,190	58,943	359,317	330,125	29,192
Utah.....	97,194	50,586	46,614	40,055	37,168	2,887	14,550	14,470	80
Vermont.....	264,052	132,036	132,016	118,584	102,417	16,167	55,251	55,037	214
Virginia.....	1,059,034	516,395	542,639	494,240	411,043	83,197	264,099	238,951	15,148
Washington... .	55,720	36,085	19,635	30,122	29,059	1,063	12,781	12,709	72
West Virginia	428,587	217,650	210,937	176,199	164,691	11,508	107,578	106,980	598
Wisconsin.....	965,712	503,434	462,276	417,455	371,062	46,393	195,901	194,380	1,521
Wyoming.....	16,479	11,950	4,529	8,884	8,420	464	1,639	1,635	4

engaged in each class, by states and territories: 1880.

ENGAGED IN PROFESSIONAL AND PERSONAL SERVICES.			ENGAGED IN TRADE AND TRANSPORTATION.			ENGAGED IN MANUFACTURES AND MECHANICAL AND MINING INDUSTRIES.		
Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.
4,074,238	2,712,943	1,361,295	1,810,256	1,750,892	59,364	3,837,112	3,205,124	631,988
72,211	41,187	31,024	16,953	16,009	944	22,996	19,461	3,535
8,210	7,870	3,940	3,252	3,235	17	7,374	7,272	102
23,406	15,284	8,182	9,235	9,158	75	11,338	10,632	706
121,435	103,207	18,228	57,392	56,621	771	118,282	109,690	8,592
24,813	21,233	3,580	15,491	15,338	153	47,408	46,439	969
51,296	30,647	20,649	29,920	28,888	1,032	116,091	89,192	26,899
14,016	11,655	2,361	6,219	6,180	39	9,101	8,790	311
17,616	12,055	5,561	4,967	4,704	263	14,148	12,284	1,864
39,975	23,064	16,311	9,848	9,176	672	15,337	12,681	2,656
17,923	12,098	5,825	6,446	6,386	60	8,436	7,803	633
104,269	62,027	42,242	25,222	24,693	529	36,167	28,954	7,213
3,861	3,651	219	1,327	1,321	6	6,532	6,468	64
229,467	157,084	72,383	128,372	125,328	3,044	205,570	177,471	28,099
137,281	100,056	37,225	56,432	55,292	1,140	110,127	98,696	11,431
103,932	69,375	34,357	50,872	50,212	660	69,941	61,490	8,441
53,507	38,289	15,218	26,379	26,119	260	36,319	33,292	3,027
104,239	63,438	40,801	33,563	32,761	802	61,481	53,788	7,693
98,111	66,138	31,973	29,130	28,041	1,089	30,681	26,459	4,222
47,411	31,604	15,807	29,790	29,090	700	72,662	55,884	16,778
98,934	50,057	39,877	49,234	46,785	2,449	85,337	70,614	14,723
170,160	100,445	69,715	115,376	109,154	6,222	370,265	272,246	98,019
143,249	103,244	40,005	54,723	53,317	1,406	130,913	118,284	12,629
59,452	39,741	19,711	24,349	23,979	370	39,789	35,511	4,278
49,448	28,563	20,885	12,975	12,849	126	13,145	11,353	1,792
148,588	102,403	46,185	79,300	77,721	1,579	109,774	98,211	11,563
6,954	6,530	415	2,706	2,759	7	8,022	7,946	76
28,746	20,766	7,980	15,106	14,983	123	18,255	16,529	1,726
10,373	9,275	1,098	4,449	4,431	18	13,231	12,878	353
28,206	16,158	12,048	11,735	11,268	527	58,037	40,675	17,362
110,722	75,763	34,959	66,382	63,874	2,508	169,561	131,647	28,914
19,042	17,241	1,801	3,264	3,252	12	4,377	4,042	335
537,897	332,068	205,820	339,419	324,304	15,115	629,869	492,679	137,190
69,321	34,774	34,547	15,966	15,793	173	33,963	28,416	5,547
250,371	173,909	76,462	104,315	101,445	2,870	242,294	210,362	31,932
16,645	14,688	1,957	6,149	6,106	43	17,458	16,770	688
446,713	318,194	128,519	179,965	169,664	10,301	528,277	451,417	76,860
24,657	15,497	9,160	15,217	14,641	576	66,169	46,072	20,088
64,246	34,809	29,937	13,556	13,147	409	19,098	15,887	3,211
94,107	60,304	33,803	23,628	23,196	432	36,082	32,442	3,640
97,561	70,178	27,888	34,909	34,649	260	30,346	28,238	2,108
11,144	9,271	1,873	4,149	4,026	123	10,212	9,401	811
28,174	16,022	12,152	8,945	8,772	173	26,214	22,586	3,628
146,664	87,681	58,983	30,418	29,804	614	63,059	54,007	8,452
6,640	5,829	811	3,405	3,389	16	7,290	7,132	164
31,680	22,361	9,319	10,653	10,510	143	26,258	24,840	1,448
97,494	64,259	33,235	37,550	36,454	1,096	86,510	75,969	10,541
4,011	3,612	369	1,545	1,528	17	1,689	1,613	74

TABLE CII.—OCCUPATIONS—Persons engaged in all classes of

	States and Territories.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	The United States.	17,302,099	14,744,942	2,647,157	825,187	293,169	12,956,111	2,283,115
1	Alabama.....	492,790	308,734	124,056	64,918	25,490	275,222	94,658
2	Arizona.....	22,271	21,800	471	205	20	21,362	442
3	Arkansas.....	260,692	220,076	30,616	28,300	7,416	191,612	22,254
4	California.....	876,595	848,303	28,292	8,430	1,043	331,801	29,592
5	Colorado.....	101,251	96,472	4,779	815	171	94,080	4,563
6	Connecticut.....	241,333	192,663	48,670	5,803	4,010	170,897	43,678
7	Dakota.....	57,844	54,993	2,851	714	179	53,001	1,632
8	Delaware.....	54,580	46,652	7,928	2,704	840	40,539	9,754
9	Dist. of Columbia.....	66,624	46,966	19,658	617	594	44,084	18,518
10	Florida.....	91,536	73,732	17,784	6,532	3,312	62,193	13,688
11	Georgia.....	597,862	445,530	152,332	65,329	31,704	350,298	115,485
12	Idaho.....	15,578	15,287	291	161	17	14,876	295
13	Illinois.....	939,730	893,679	106,101	37,100	7,096	813,162	97,650
14	Indiana.....	635,080	588,658	51,422	32,628	3,550	517,055	46,972
15	Iowa.....	528,302	483,457	44,845	17,832	2,462	439,119	41,700
16	Kansas.....	322,285	302,934	19,351	13,225	1,222	277,955	17,789
17	Kentucky.....	519,854	465,432	54,422	26,643	5,387	491,297	47,045
18	Louisiana.....	363,238	268,170	95,052	24,882	20,041	240,850	70,338
19	Maine.....	231,993	198,465	33,528	4,087	1,647	171,995	31,192
20	Maryland.....	324,432	265,632	58,800	11,121	4,706	238,180	51,941
21	Massachusetts.....	720,774	546,591	174,183	12,306	9,062	474,578	163,199
22	Michigan.....	569,204	514,191	55,013	11,610	3,479	479,997	50,725
23	Minnesota.....	255,125	230,048	25,077	4,961	1,504	213,678	33,301
24	Mississippi.....	415,056	305,089	110,417	32,330	17,562	252,112	89,040
25	Missouri.....	692,959	630,010	62,943	31,662	4,763	567,953	56,654
26	Montana.....	22,255	21,748	507	100	25	21,275	477
27	Nebraska.....	152,614	142,139	10,455	8,816	730	133,420	9,573
28	Nevada.....	32,233	30,730	1,503	109	42	30,129	1,421
29	New Hampshire.....	142,468	112,340	30,128	2,593	1,709	99,485	27,820
30	New Jersey.....	306,879	320,103	66,776	9,957	4,338	300,650	60,992
31	New Mexico.....	40,822	38,560	2,262	1,045	252	34,621	1,911
32	New York.....	1,884,645	1,524,264	360,381	38,534	22,162	1,382,481	331,497
33	North Carolina.....	480,137	339,211	140,926	55,623	18,979	365,496	64,294
34	Ohio.....	994,475	881,836	112,639	31,282	7,251	786,813	108,581
35	Oregon.....	67,343	64,564	2,779	966	103	60,865	2,635
36	Pennsylvania.....	1,456,067	1,239,084	216,983	53,995	18,546	1,108,079	193,816
37	Rhode Island.....	116,979	87,120	29,859	3,604	2,804	78,039	26,529
38	South Carolina.....	392,102	275,015	120,087	31,765	20,113	218,698	94,658
39	Tennessee.....	447,970	391,562	56,408	44,292	10,056	320,814	44,071
40	Texas.....	522,133	463,190	58,943	30,934	10,790	404,959	46,433
41	Utah.....	40,055	37,168	2,887	2,292	311	38,554	2,416
42	Vermont.....	113,584	102,417	10,167	2,598	1,054	87,286	14,049
43	Virginia.....	494,240	411,043	83,197	34,741	11,898	341,673	67,990
44	Washington.....	30,122	29,059	1,063	337	54	27,875	990
45	West Virginia.....	176,199	164,691	11,508	9,842	1,242	143,437	9,903
46	Wisconsin.....	417,455	371,063	46,393	10,240	3,448	332,471	42,165
47	Wyoming.....	8,884	8,420	464	67	25	8,262	434
	Population (10 years and over).	36,761,607	18,735,980	18,025,627	3,376,114	3,273,369	13,907,444	13,377,002

occupation, by states and territories, with age, sex, and nativity: 1880.

AGE AND SEX—cont'd.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandi- navia.	British Amer- ica.	Other coun- tries.	
Male.	Female.								
933, 044	70, 873	18, 897, 452	978, 854	1, 033, 190	466, 505	205, 525	351, 103	459, 470	
28, 594	4, 508	487, 376	1, 190	1, 691	622	96	92	1, 723	1
233	9	11, 641	1, 156	999	897	120	403	7, 085	2
10, 164	946	254, 142	1, 860	1, 785	676	153	250	2, 336	3
13, 072	567	175, 406	35, 939	27, 430	20, 094	4, 743	11, 441	101, 452	4
1, 577	45	72, 127	6, 206	4, 865	7, 739	1, 877	3, 941	4, 550	5
15, 963	932	171, 793	37, 697	3, 327	10, 366	1, 468	8, 746	2, 931	6
1, 278	40	30, 264	2, 883	4, 710	2, 618	9, 262	4, 359	3, 248	7
3, 409	334	49, 470	3, 188	660	912	47	77	226	8
2, 265	546	58, 064	3, 615	2, 456	950	44	152	713	9
5, 027	784	86, 410	329	459	532	186	215	3, 405	10
29, 903	5, 143	592, 956	1, 770	1, 581	729	137	134	555	11
310	5	8, 168	768	602	1, 441	376	392	3, 831	12
43, 417	1, 355	769, 599	60, 901	122, 636	39, 734	32, 222	14, 530	27, 138	13
33, 975	900	566, 774	12, 421	38, 746	7, 193	1, 728	2, 146	6, 072	14
26, 506	593	397, 531	22, 970	49, 087	16, 850	20, 242	8, 438	13, 184	15
11, 774	340	268, 346	8, 023	15, 893	10, 265	6, 256	4, 889	2, 043	16
27, 492	1, 990	491, 361	8, 280	14, 444	2, 423	71	489	2, 786	17
22, 604	4, 673	334, 840	6, 652	8, 847	1, 614	260	434	10, 331	18
22, 988	659	204, 987	5, 993	3, 969	3, 714	519	15, 531	800	19
16, 331	2, 153	282, 954	11, 297	23, 067	3, 945	212	471	2, 480	20
39, 407	2, 922	478, 368	122, 604	9, 637	34, 449	3, 471	63, 441	8, 804	21
31, 678	809	373, 376	22, 480	47, 621	29, 700	8, 172	70, 912	16, 943	22
11, 409	272	118, 509	14, 366	36, 236	7, 524	52, 356	14, 427	11, 707	23
20, 647	3, 315	410, 798	1, 358	1, 410	619	194	158	969	24
30, 401	1, 526	580, 133	27, 487	56, 810	10, 879	2, 641	4, 213	11, 396	25
273	5	13, 400	1, 942	1, 203	1, 303	382	1, 744	2, 222	26
4, 923	152	104, 900	5, 742	17, 212	5, 785	6, 296	3, 567	9, 112	27
492	30	13, 794	2, 038	1, 023	3, 484	377	2, 317	7, 980	28
13, 262	599	117, 347	6, 544	455	2, 495	153	14, 970	205	29
19, 490	1, 446	283, 613	47, 593	34, 612	18, 986	1, 249	1, 667	9, 189	30
1, 994	99	36, 378	612	569	360	53	216	2, 639	31
103, 249	6, 722	1, 240, 850	266, 744	193, 932	76, 471	8, 434	40, 272	58, 942	32
35, 093	3, 733	477, 336	591	461	427	23	94	755	33
69, 739	2, 107	806, 730	36, 996	92, 885	30, 273	1, 005	7, 297	19, 289	34
2, 733	51	44, 788	2, 393	3, 146	2, 638	1, 178	1, 499	11, 631	35
77, 110	4, 621	1, 162, 426	123, 428	86, 523	55, 262	4, 756	5, 363	18, 309	36
5, 477	526	75, 404	19, 107	1, 116	8, 913	587	10, 496	1, 536	37
21, 532	5, 316	388, 487	1, 186	1, 428	437	38	55	471	38
26, 456	2, 281	438, 738	2, 899	1, 980	1, 282	1, 039	192	1, 840	39
21, 297	1, 700	464, 371	5, 503	18, 448	4, 332	1, 228	1, 308	26, 943	40
1, 922	160	20, 903	515	544	11, 915	2, 137	857	3, 184	41
12, 433	464	99, 121	5, 577	231	1, 895	49	11, 474	237	42
34, 029	3, 743	487, 986	2, 067	1, 839	1, 471	37	176	664	43
847	19	18, 694	1, 578	1, 534	1, 705	833	1, 476	4, 297	44
11, 412	363	167, 821	2, 915	3, 376	1, 349	10	155	4, 573	45
28, 351	780	218, 716	20, 611	90, 214	18, 082	20, 221	14, 785	25, 826	46
91	5	5, 486	730	522	805	182	283	876	47
1, 452, 422	1, 375, 256	30, 270, 306	1, 862, 200	1, 911, 200	891, 630	365, 460	606, 860	823, 951	

TABLE CII.—OCCUPATIONS—Persons engaged in agriculture,

	States and Territories.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	The United States.	7, 670, 403	7, 075, 983	594, 510	584, 867	135, 862	5, 868, 133	435, 920
1	Alabama.....	380, 630	291, 477	89, 153	53, 854	20, 608	213, 143	65, 996
2	Arizona.....	3, 435	3, 423	12	89	-----	3, 257	7
3	Arkansas.....	216, 655	195, 002	21, 653	26, 118	6, 138	160, 546	14, 951
4	California.....	79, 396	78, 785	611	1, 128	30	72, 762	518
5	Colorado.....	13, 539	13, 462	77	335	6	12, 569	60
6	Connecticut.....	44, 026	43, 936	90	1, 214	3	34, 632	62
7	Dakota.....	28, 508	28, 368	140	570	12	26, 786	111
8	Delaware.....	17, 849	17, 609	240	1, 634	36	14, 308	160
9	District of Columbia.....	1, 464	1, 445	19	11	-----	1, 312	15
10	Florida.....	58, 731	47, 465	11, 266	5, 649	2, 680	33, 108	8, 121
11	Georgia.....	432, 204	329, 856	102, 348	56, 095	25, 908	248, 513	73, 484
12	Idaho.....	3, 858	3, 847	11	50	-----	3, 667	9
13	Illinois.....	436, 371	433, 796	2, 575	27, 998	310	378, 360	1, 953
14	Indiana.....	331, 240	329, 614	1, 626	25, 413	253	280, 370	1, 141
15	Iowa.....	303, 557	302, 171	1, 386	15, 210	169	267, 172	1, 029
16	Kansas.....	206, 080	205, 234	846	11, 781	83	184, 294	648
17	Kentucky.....	320, 571	315, 445	5, 126	30, 141	885	263, 684	3, 729
18	Louisiana.....	205, 366	147, 538	57, 768	20, 045	16, 416	110, 917	39, 536
19	Maine.....	82, 130	81, 887	243	1, 968	10	64, 473	189
20	Maryland.....	90, 927	89, 176	1, 751	5, 510	256	75, 245	1, 323
21	Massachusetts.....	64, 973	64, 746	227	1, 229	10	59, 163	168
22	Michigan.....	240, 319	239, 346	973	7, 185	76	210, 261	759
23	Minnesota.....	181, 535	130, 817	718	3, 669	48	118, 254	563
24	Mississippi.....	339, 938	252, 324	87, 614	29, 300	15, 449	204, 993	69, 655
25	Missouri.....	355, 297	351, 081	3, 616	24, 043	255	305, 431	2, 896
26	Montana.....	4, 513	4, 504	9	51	2	4, 356	7
27	Nebraska.....	90, 597	89, 851	626	3, 233	81	82, 658	485
28	Nevada.....	4, 180	4, 146	34	37	1	3, 960	31
29	New Hampshire.....	44, 490	44, 299	191	1, 012	4	34, 187	148
30	New Jersey.....	59, 214	58, 819	395	1, 873	6	49, 539	310
31	New Mexico.....	14, 139	14, 025	114	926	9	12, 135	83
32	New York.....	377, 460	375, 213	2, 247	9, 027	78	314, 145	1, 676
33	North Carolina.....	360, 937	314, 228	46, 709	47, 329	12, 227	239, 690	32, 720
34	Ohio.....	367, 495	396, 120	1, 375	17, 729	90	338, 313	1, 076
35	Oregon.....	27, 091	27, 000	91	637	5	24, 530	83
36	Pennsylvania.....	301, 112	299, 809	1, 303	16, 041	105	249, 391	968
37	Rhode Island.....	10, 945	10, 910	35	192	1	8, 789	22
38	South Carolina.....	294, 692	208, 672	85, 930	27, 453	16, 602	162, 992	65, 872
39	Tennessee.....	294, 153	275, 620	18, 533	36, 338	5, 728	218, 316	11, 952
40	Texas.....	359, 317	330, 125	29, 192	31, 592	7, 485	281, 519	29, 958
41	Utah.....	14, 550	14, 470	80	1, 351	17	12, 017	59
42	Vermont.....	53, 251	55, 037	214	1, 670	10	44, 356	169
43	Virginia.....	254, 089	238, 951	15, 148	22, 601	3, 370	192, 101	10, 895
44	Washington.....	12, 781	12, 709	72	225	5	11, 933	63
45	West Virginia.....	107, 578	106, 980	598	7, 944	195	99, 343	329
46	Wisconsin.....	195, 901	194, 380	1, 521	6, 743	200	167, 464	1, 099
47	Wyoming.....	1, 639	1, 635	4	19	-----	1, 576	4

by states and territories, with age, sex, and nativity: 1880—Continued.

AGE AND SEX—cont'd.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandi- navia.	British Amer- ica.	Other coun- tries.	
Male.	Female.								
602,983	22,728	6,857,664	140,307	293,722	104,314	91,826	73,435	103,215	
24,480	2,549	379,780	170	447	75	10	11	137	1
77	5	2,389	59	69	82	14	58	814	2
8,338	564	214,023	242	593	215	45	74	1,484	3
4,895	63	48,662	5,220	4,231	3,465	738	2,291	14,789	4
558	5	10,939	288	584	660	160	304	580	5
8,090	25	37,737	3,908	859	773	217	264	268	6
1,012	17	12,581	1,025	2,743	1,129	6,525	2,518	2,037	7
1,667	44	17,321	288	65	182	6	19	18	8
122	4	1,103	109	126	58	1	3	13	9
3,708	465	57,818	51	94	159	73	49	501	10
24,648	2,956	431,643	150	178	92	60	9	72	11
130	2	2,711	102	165	512	108	60	260	12
27,438	312	347,727	15,191	42,856	12,360	8,776	3,342	6,619	13
23,851	232	306,868	2,971	15,539	1,996	804	639	2,513	14
19,729	188	228,819	12,586	29,073	9,295	11,986	4,340	7,458	15
9,159	115	172,013	4,393	10,380	6,212	4,217	2,634	5,231	16
21,620	512	315,656	1,366	2,173	237	18	36	1,025	17
16,576	1,996	201,930	285	547	163	25	49	2,302	18
15,446	58	77,743	760	39	326	268	2,966	80	19
8,421	172	86,641	1,577	2,130	390	14	33	142	20
13,354	49	54,090	6,491	429	1,237	165	2,200	361	21
21,897	147	174,239	7,711	18,735	11,414	1,224	22,120	4,876	22
8,804	77	53,693	7,990	21,749	3,941	31,336	6,102	6,724	23
18,031	2,510	338,808	440	240	195	39	53	163	24
22,207	465	327,118	3,854	16,616	2,027	606	1,080	3,038	25
97	-----	3,214	296	199	264	60	240	140	26
3,990	60	60,728	2,886	11,459	3,433	4,142	2,030	5,829	27
149	2	2,474	150	218	232	63	260	783	28
9,100	39	42,551	550	55	254	13	1,030	37	29
7,402	79	51,579	2,855	2,841	1,118	101	64	653	30
964	22	13,242	50	69	60	2	27	689	31
52,041	493	312,607	24,046	17,800	12,197	739	6,171	3,990	32
27,209	1,762	360,230	331	38	158	4	52	124	33
40,078	209	356,312	5,621	23,733	6,162	179	859	4,638	34
1,833	3	23,085	644	1,023	893	197	513	723	35
34,377	230	278,745	7,728	9,086	3,092	608	357	1,496	36
1,929	12	9,483	693	54	253	64	197	201	37
18,227	3,456	294,069	185	181	81	4	11	71	38
20,966	853	291,417	429	348	215	897	40	807	39
17,014	749	333,225	996	10,453	1,469	455	460	12,159	40
502	5	8,469	75	84	4,459	723	168	572	41
9,011	44	49,198	1,905	25	609	6	3,457	41	42
24,249	883	232,588	412	401	527	3	55	113	43
551	4	9,613	623	621	669	344	498	464	44
8,693	74	105,700	631	750	210	2	17	263	45
20,173	222	95,815	11,915	44,079	9,855	15,782	5,118	13,336	46
40	-----	1,210	69	85	149	24	52	50	47

TABLE CII.—OCCUPATIONS—Persons engaged in professional and personal

	States and Territories.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	The United States.	4, 074, 228	2, 712, 943	1, 361, 295	127, 565	107, 830	2, 446, 962	1, 215, 189
1	Alabama	72, 211	41, 187	31, 024	9, 913	4, 477	29, 261	24, 688
2	Arizona	8, 210	7, 870	340	102	17	7, 708	819
3	Arkansas	23, 466	15, 284	8, 182	1, 963	1, 238	12, 192	6, 597
4	California	121, 435	103, 207	18, 228	1, 252	793	98, 833	17, 036
5	Colorado	24, 813	21, 233	3, 580	240	155	20, 642	3, 392
6	Connecticut	51, 296	30, 647	20, 649	443	854	27, 726	19, 076
7	Dakota	14, 016	11, 655	2, 361	107	164	11, 423	2, 175
8	Delaware	17, 616	12, 055	5, 561	610	629	10, 579	4, 636
9	Dist. of Columbia ..	33, 975	23, 664	16, 311	288	544	22, 006	15, 283
10	Florida	17, 923	12, 098	5, 825	603	582	10, 801	4, 931
11	Georgia	104, 269	62, 027	42, 242	7, 298	5, 123	51, 813	35, 001
12	Idaho	3, 801	3, 651	210	33	17	3, 559	190
13	Illinois	229, 467	157, 084	72, 383	4, 810	5, 050	145, 687	66, 569
14	Indiana	137, 281	100, 056	37, 225	4, 717	2, 954	91, 133	33, 818
15	Iowa	103, 932	69, 375	34, 357	1, 667	2, 197	65, 014	31, 879
16	Kansas	53, 507	33, 289	15, 218	996	1, 112	36, 065	13, 929
17	Kentucky	104, 239	63, 438	40, 801	4, 649	4, 089	56, 407	33, 399
18	Louisiana	98, 111	66, 138	31, 973	3, 637	3, 450	50, 654	26, 084
19	Maine	47, 411	31, 604	15, 807	620	580	28, 287	14, 821
20	Maryland	98, 934	53, 037	39, 877	2, 893	3, 358	53, 259	34, 990
21	Massachusetts	170, 160	100, 445	69, 715	1, 293	1, 605	90, 627	66, 169
22	Michigan	143, 249	103, 244	40, 005	2, 160	2, 914	97, 020	36, 068
23	Minnesota	59, 452	39, 741	19, 711	775	1, 353	37, 801	18, 261
24	Mississippi	49, 448	28, 563	20, 885	2, 638	1, 990	24, 372	17, 628
25	Missouri	148, 588	102, 403	46, 185	4, 302	3, 755	94, 352	41, 568
26	Montana	6, 954	6, 539	415	40	22	6, 448	388
27	Nebraska	28, 746	20, 766	7, 980	404	634	19, 964	7, 274
28	Nevada	10, 373	9, 275	1, 098	53	38	9, 085	1, 038
29	New Hampshire	28, 206	16, 158	12, 048	252	345	14, 458	11, 346
30	New Jersey	110, 722	75, 763	34, 959	1, 988	823	69, 131	33, 145
31	New Mexico	19, 042	17, 241	1, 801	971	208	15, 376	1, 527
32	New York	537, 897	332, 068	205, 829	8, 932	10, 254	303, 176	191, 249
33	North Carolina	69, 321	34, 774	34, 547	6, 757	5, 922	25, 997	26, 843
34	Ohio	250, 371	173, 909	76, 462	5, 662	5, 220	159, 325	69, 962
35	Oregon	16, 645	14, 688	1, 957	182	93	14, 117	1, 826
36	Pennsylvania	440, 713	318, 194	128, 519	15, 110	11, 569	284, 711	113, 947
37	Rhode Island	24, 657	15, 497	9, 160	241	212	14, 166	8, 589
38	South Carolina	64, 246	34, 309	29, 937	3, 704	3, 220	28, 945	25, 024
39	Tennessee	94, 107	60, 304	33, 803	6, 950	4, 125	50, 441	28, 375
40	Texas	97, 561	70, 178	27, 383	4, 612	3, 264	62, 876	23, 215
41	Utah	11, 144	9, 271	1, 873	697	247	8, 814	1, 550
42	Vermont	28, 174	16, 022	12, 152	406	875	14, 180	10, 961
43	Virginia	146, 664	87, 681	58, 983	9, 997	7, 898	72, 024	48, 513
44	Washington	6, 640	5, 829	814	59	47	5, 649	732
45	West Virginia	31, 680	22, 361	9, 319	1, 249	1, 006	19, 908	8, 609
46	Wisconsin	97, 494	64, 259	33, 235	1, 706	2, 703	58, 856	30, 072
47	Wyoming	4, 011	3, 642	369	33	25	3, 584	339

services, by states and territories, with age, sex, and nativity: 1880—Continued.

AGE AND SEX—cont'd.		NATIVITY.						
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.
Male.	Female.							
138,416	88,276	3,076,768	415,854	218,867	79,963	52,860	90,614	139,312
2,013	1,859	71,100	340	188	113	29	17	424
60	4	3,440	465	332	199	26	92	3,676
1,129	347	22,043	559	265	152	40	61	346
3,122	399	50,993	15,041	6,389	4,360	1,301	2,453	40,898
351	33	18,012	1,829	1,030	1,075	526	849	1,492
2,478	719	32,095	14,335	1,380	1,306	424	1,054	702
125	22	8,273	982	1,022	547	1,599	947	646
866	246	15,282	1,833	159	230	15	18	74
1,370	484	36,178	2,157	745	454	17	83	341
694	292	16,945	110	68	106	31	58	605
2,916	2,058	103,004	640	263	157	27	35	143
59	3	2,231	198	158	336	104	91	743
7,187	764	152,935	23,054	27,076	6,604	9,601	3,296	6,901
4,206	453	122,324	4,910	6,910	1,194	377	496	1,070
2,894	281	79,885	5,453	7,886	2,265	4,845	1,714	2,639
1,228	177	46,386	1,466	1,822	1,321	916	637	959
2,382	1,333	97,087	3,393	2,752	372	17	115	503
2,547	2,439	88,522	3,574	2,495	558	84	145	2,733
2,697	406	39,949	2,627	46	656	97	3,779	257
2,905	1,520	87,203	5,012	5,009	736	53	113	788
8,525	1,941	93,160	52,684	1,763	5,304	1,061	13,605	2,583
4,064	423	87,677	7,059	10,998	5,850	3,217	23,600	4,848
1,165	157	29,635	3,496	6,300	1,138	12,863	3,585	2,435
1,503	1,267	48,562	357	175	98	37	24	195
3,749	862	118,760	12,274	11,483	1,922	555	861	2,793
51	5	4,231	649	474	230	92	515	713
398	72	20,376	1,393	2,601	867	1,089	605	1,815
137	22	4,089	625	404	585	106	731	2,833
1,447	357	22,382	2,220	67	369	65	3,019	84
4,644	991	72,337	24,232	7,418	3,257	599	384	2,594
894	66	17,396	198	133	80	11	55	1,169
19,960	4,326	317,201	128,527	42,844	16,844	2,899	13,359	16,223
2,020	1,740	68,941	95	67	50	3	10	155
8,922	1,280	200,364	17,217	20,673	5,261	313	2,128	4,410
389	38	9,627	827	640	510	246	335	4,460
18,373	3,003	351,332	56,410	23,532	6,189	1,534	1,746	5,970
1,090	362	13,669	7,582	206	636	217	1,613	434
1,600	1,693	63,429	413	210	88	15	14	77
2,913	1,303	92,331	991	292	173	34	29	257
2,590	904	82,160	1,814	2,478	958	369	279	9,503
260	76	6,024	221	186	2,675	635	83	1,320
1,436	316	22,629	1,642	39	234	17	3,486	77
5,660	2,572	145,287	686	269	242	8	36	150
121	12	3,737	491	358	315	141	312	1,286
1,204	244	29,869	851	667	153	1	40	99
3,687	400	56,145	4,490	18,327	2,515	6,634	3,899	5,384
25	5	2,351	427	263	264	63	108	529

TABLE CII.—OCCUPATIONS—Persons engaged in trade and transportation,

	States and Territories.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	The United States.	1,810,256	1,750,892	59,364	26,078	2,547	1,672,171	54,849
1	Alabama.....	16,953	16,609	344	378	11	15,592	307
2	Arizona.....	3,252	3,235	17	5	-----	3,200	17
3	Arkansas.....	9,233	9,158	75	81	1	8,881	67
4	California.....	57,392	56,621	771	429	27	54,843	714
5	Colorado.....	15,491	15,338	153	100	2	15,088	149
6	Connecticut.....	29,920	28,888	1,032	391	70	27,354	951
7	Dakota.....	6,219	6,180	39	39	2	6,111	37
8	Delaware.....	4,967	4,704	263	59	2	4,400	251
9	Dist. of Columbia.....	9,848	9,176	672	197	18	8,729	636
10	Florida.....	6,446	6,386	60	30	-----	6,115	49
11	Georgia.....	25,222	24,693	529	441	14	23,608	484
12	Idaho.....	1,327	1,321	6	7	-----	1,299	6
13	Illinois.....	128,372	125,328	3,044	1,564	179	121,123	2,829
14	Indiana.....	56,432	55,292	1,140	648	19	53,689	1,087
15	Iowa.....	50,872	50,212	660	330	16	48,777	639
16	Kansas.....	26,379	26,119	260	176	8	25,602	249
17	Kentucky.....	33,563	32,761	802	499	18	31,303	755
18	Louisiana.....	29,180	28,041	1,689	522	21	26,301	971
19	Maine.....	29,790	29,090	709	179	12	27,314	673
20	Maryland.....	49,234	46,785	2,449	797	75	44,554	2,230
21	Massachusetts.....	115,376	109,154	6,222	1,193	175	103,580	5,941
22	Michigan.....	54,723	53,317	1,406	500	56	51,368	1,333
23	Minnesota.....	24,349	23,979	370	208	6	23,422	358
24	Mississippi.....	12,975	12,849	126	154	2	12,343	110
25	Missouri.....	79,300	77,721	1,579	1,137	59	75,277	1,484
26	Montana.....	2,766	2,759	7	3	-----	2,741	7
27	Nebraska.....	15,106	14,983	123	87	2	14,751	120
28	Nevada.....	4,449	4,431	18	11	-----	4,370	18
29	New Hampshire.....	11,735	11,208	527	71	7	10,618	518
30	New Jersey.....	66,382	63,874	2,508	978	132	60,806	2,285
31	New Mexico.....	3,264	3,252	12	30	1	3,172	11
32	New York.....	339,419	324,304	15,115	6,856	931	307,563	13,774
33	North Carolina.....	15,966	15,793	173	306	11	14,910	136
34	Ohio.....	104,315	101,445	2,870	1,785	146	95,415	2,623
35	Oregon.....	6,149	6,106	43	52	1	5,930	40
36	Pennsylvania.....	179,965	169,664	10,301	3,418	386	160,049	9,469
37	Rhode Island.....	15,217	14,641	576	214	15	13,806	549
38	South Carolina.....	13,556	13,147	409	183	8	12,577	347
39	Tennessee.....	23,628	23,196	432	361	7	22,172	401
40	Texas.....	34,999	34,649	260	465	7	33,537	239
41	Utah.....	4,149	4,026	123	86	15	3,850	97
42	Vermont.....	8,945	8,772	173	80	3	8,285	167
43	Virginia.....	30,418	29,804	614	374	13	28,412	554
44	Washington.....	3,403	3,389	16	15	-----	3,338	16
45	West Virginia.....	10,653	10,510	143	122	9	10,006	127
46	Wisconsin.....	37,550	36,454	1,096	463	60	34,866	1,016
47	Wyoming.....	1,545	1,528	17	13	-----	1,505	17

by states and territories, with age, sex, and nativity: 1880—Continued.

AGE AND SEX—cont'd.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
52,643	1,968	1,351,695	133,518	152,491	56,498	16,214	33,119	61,721	
639	26	15,357	369	638	138	30	26	395	1
21	-----	1,534	70	169	90	9	42	1,349	2
196	7	8,005	348	488	77	22	37	236	3
1,349	30	27,667	6,009	7,473	3,490	1,143	1,498	10,202	4
150	2	11,458	1,059	857	695	164	485	773	5
1,143	11	23,501	3,514	991	818	57	385	654	6
39	-----	4,043	406	352	216	565	431	206	7
245	10	4,840	204	94	77	7	6	39	8
250	18	8,373	630	517	129	7	25	167	9
191	11	5,203	89	166	121	40	48	779	10
644	31	23,399	579	775	207	19	52	191	11
15	-----	829	37	72	134	16	46	193	12
2,641	36	85,445	10,859	16,813	5,316	3,370	2,910	4,159	13
1,005	34	47,608	2,121	4,651	794	156	358	744	14
1,165	14	39,447	2,664	3,959	1,488	1,174	888	1,052	15
341	3	21,887	1,171	1,321	755	321	491	433	16
959	29	28,373	1,418	2,854	363	10	101	444	17
1,218	97	21,562	1,548	2,605	542	84	96	2,093	18
1,397	15	27,573	590	78	321	57	980	192	19
1,434	144	41,367	2,022	4,482	610	95	95	563	20
4,381	106	92,863	11,071	1,301	3,259	287	4,445	2,150	21
1,449	17	37,402	2,484	4,329	2,838	485	5,507	1,678	22
340	6	14,314	1,521	2,727	858	2,672	1,346	911	23
852	14	11,514	271	632	109	38	25	386	24
1,307	36	59,554	5,477	9,335	1,821	238	972	1,903	25
15	-----	1,961	142	174	113	30	226	111	26
145	1	11,084	908	1,186	523	416	385	604	27
50	-----	2,289	223	358	238	36	235	1,068	28
519	2	10,414	492	52	136	8	602	31	29
2,090	91	50,008	5,944	6,019	2,524	141	323	1,423	30
50	-----	2,516	175	185	66	10	47	265	31
9,885	410	225,349	43,684	39,170	13,406	1,348	4,908	11,554	32
577	26	15,394	68	254	63	5	9	173	33
4,245	101	77,957	5,949	12,891	3,201	146	1,165	3,096	34
124	2	3,831	300	519	316	79	160	944	35
6,197	446	143,513	16,044	11,305	5,346	367	708	2,682	36
621	12	11,974	1,724	171	664	24	448	212	37
367	54	12,170	328	705	115	8	11	219	38
663	24	21,444	837	611	228	28	47	433	39
647	14	26,426	1,742	2,632	839	209	258	2,803	40
90	11	2,161	93	78	1,268	93	66	390	41
407	3	7,556	498	44	93	1	727	179	42
1,018	47	28,940	531	538	196	6	28	179	43
26	-----	1,548	163	168	206	91	116	1,113	44
322	7	9,391	563	502	102	-----	22	73	45
1,125	20	21,877	1,752	7,278	1,559	2,045	1,280	1,764	46
10	-----	1,075	116	67	115	48	53	71	47

TABLE CII.—OCCUPATIONS—Persons engaged in manufactures and mechanical and

	States and Territories.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	The United States.	3,837,112	3,205,124	631,988	86,677	46,930	2,978,845	577,157
1	Alabama.....	22,996	19,461	3,535	778	394	17,226	3,067
2	Arizona.....	7,374	7,272	102	9	3	7,188	99
3	Arkansas.....	11,358	10,632	706	138	39	9,993	639
4	California.....	118,282	109,690	8,592	621	193	103,363	8,324
5	Colorado.....	47,408	46,439	969	140	8	45,781	956
6	Connecticut.....	116,091	89,192	26,899	3,755	3,083	81,185	23,589
7	Dakota.....	9,101	8,790	311	7	1	8,681	399
8	Delaware.....	14,148	12,284	1,864	401	173	11,252	1,957
9	Dist. of Columbia..	15,337	12,681	2,656	121	32	12,037	2,584
10	Florida.....	8,436	7,803	633	200	50	7,169	567
11	Georgia.....	36,167	28,954	7,213	895	659	26,364	6,456
12	Idaho.....	6,532	6,468	64	11	—	6,351	64
13	Illinois.....	205,570	177,471	28,099	3,228	1,557	168,092	26,299
14	Indiana.....	110,127	98,696	11,431	1,850	324	92,513	10,926
15	Iowa.....	69,941	61,499	8,442	625	80	58,156	8,252
16	Kansas.....	36,319	33,292	3,027	272	19	31,974	2,963
17	Kentucky.....	61,481	53,788	7,693	1,354	415	49,903	7,162
18	Louisiana.....	30,681	26,450	4,222	478	154	24,018	3,922
19	Maine.....	72,662	55,884	16,778	1,320	1,045	51,121	15,518
20	Maryland.....	85,337	70,614	14,723	1,921	1,017	65,122	13,389
21	Massachusetts.....	370,265	272,246	98,019	8,591	7,272	250,508	69,921
22	Michigan.....	130,913	118,284	12,629	1,765	493	112,251	11,974
23	Minnesota.....	39,789	35,511	4,278	300	97	34,201	4,149
24	Mississippi.....	13,145	11,353	1,792	188	121	10,404	1,647
25	Missouri.....	109,774	98,211	11,563	2,180	694	92,893	10,706
26	Montana.....	8,022	7,946	76	6	1	7,830	75
27	Nebraska.....	18,255	16,329	1,926	92	13	16,047	1,694
28	Nevada.....	13,231	12,878	353	8	3	12,714	344
29	New Hampshire.....	58,097	40,675	17,362	1,257	1,353	37,222	15,898
30	New Jersey.....	160,561	131,647	28,914	5,113	3,377	121,180	25,252
31	New Mexico.....	4,377	4,042	335	18	34	3,938	290
32	New York.....	629,869	492,679	137,190	13,710	10,899	457,597	124,798
33	North Carolina.....	33,963	28,416	5,547	1,231	779	24,898	4,563
34	Ohio.....	212,294	210,362	31,932	6,100	1,705	193,763	29,620
35	Oregon.....	17,458	16,770	688	95	4	16,288	676
36	Pennsylvania.....	528,277	451,417	76,860	10,326	6,486	413,928	69,432
37	Rhode Island.....	66,169	46,972	20,688	2,957	2,570	41,278	17,372
38	South Carolina.....	19,698	15,887	3,811	425	233	14,164	3,415
39	Tennessee.....	36,082	32,442	3,640	643	196	29,885	3,343
40	Texas.....	30,346	28,238	2,108	265	34	26,927	2,041
41	Utah.....	10,212	9,461	811	158	32	8,773	711
42	Vermont.....	26,214	22,586	3,628	442	166	20,565	3,361
43	Virginia.....	63,659	54,667	8,452	1,769	577	49,136	7,654
44	Washington.....	7,296	7,132	164	38	2	6,955	159
45	West Virginia.....	26,288	24,840	1,448	527	32	23,120	1,378
46	Wisconsin.....	86,519	75,969	10,541	1,328	425	71,275	9,977
47	Wyoming.....	1,689	1,615	74	2	—	1,597	7

mining industries, by states and territories, with age, sex, and nativity: 1880—Continued.

AGE AND SEX—cont'd.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
139,602	7,901	2,611,325	284,175	368,110	225,780	44,615	153,935	140,222	
1,462	74	21,189	311	418	296	27	38	767	1
75	-----	4,328	553	429	516	71	211	1,236	2
501	28	10,092	201	439	212	46	78	270	3
3,706	75	48,084	9,669	9,337	8,869	1,561	5,199	35,563	4
518	5	31,694	3,030	2,334	5,309	1,027	2,303	1,711	5
4,252	227	78,465	15,940	5,097	7,460	770	7,043	1,297	6
102	1	5,417	470	593	726	573	963	359	7
631	34	12,327	858	342	473	19	34	95	8
523	40	12,950	728	1,068	359	19	41	192	9
434	16	6,449	79	131	155	42	60	1,520	10
1,695	98	34,010	401	365	273	31	38	149	11
106	-----	2,397	431	267	459	143	195	2,625	12
6,151	243	116,492	12,297	36,391	15,454	10,475	5,012	9,449	13
4,333	181	89,974	2,419	11,646	3,299	391	653	1,745	14
2,718	110	59,180	2,067	8,169	3,807	2,237	1,496	1,985	15
1,046	45	28,560	993	2,340	2,077	302	727	820	16
2,531	116	59,245	2,103	6,065	1,391	26	237	814	17
1,963	146	23,826	1,245	3,200	546	67	144	2,653	18
3,443	235	59,723	2,016	206	2,401	159	7,826	231	19
3,371	317	67,743	2,656	11,446	2,189	50	230	993	20
13,147	826	238,255	52,338	6,144	24,649	1,938	43,191	3,710	21
4,268	222	74,058	5,225	13,559	9,598	3,246	19,685	5,541	22
1,001	32	20,897	1,359	5,460	1,587	5,485	3,394	1,037	23
761	24	11,914	290	393	217	89	56	225	24
3,138	163	74,703	5,882	19,376	4,209	582	1,300	2,722	25
110	-----	3,994	855	415	646	191	663	1,258	26
390	19	12,712	555	1,960	962	649	547	894	27
156	6	4,912	1,088	643	2,429	172	1,091	2,236	28
2,196	201	42,200	3,282	281	1,736	67	10,328	143	29
5,354	285	109,696	14,532	18,334	12,087	597	896	4,509	30
86	11	3,219	189	182	154	30	87	516	31
21,363	1,493	385,693	70,487	93,118	34,024	3,448	15,894	27,265	32
2,287	265	33,271	97	102	156	11	23	303	33
10,494	517	172,097	8,209	35,673	15,649	376	3,145	7,145	34
387	8	3,245	622	904	967	656	486	5,518	35
18,163	942	338,836	43,246	42,600	40,635	2,247	2,552	8,161	36
1,827	140	40,278	9,108	685	7,060	282	8,298	509	37
1,278	113	18,819	260	332	153	11	19	104	38
1,914	101	33,546	642	729	606	80	76	343	39
1,046	33	22,460	951	2,865	1,068	195	311	2,478	40
470	68	4,249	126	196	3,513	686	549	992	41
1,579	101	19,733	1,532	113	904	25	3,894	98	42
3,762	241	61,191	438	631	506	20	57	216	43
139	3	3,796	302	377	375	262	550	1,494	44
1,193	38	22,861	870	1,457	854	7	76	153	45
3,360	138	44,879	2,454	20,335	4,132	4,769	4,288	5,342	46
16	-----	841	118	107	286	41	70	226	47

TABLE CIII.—OCCUPATIONS—*The United States by classes and*

Occupations.	Persons occupied.	AGE AND SEX.			
		All ages.		10 to 15.	
		Male.	Female.	Male.	Female.
ALL OCCUPATIONS	17,392,099	14,744,942	2,647,157	825,187	293,189
AGRICULTURE	7,670,493	7,075,983	594,510	584,867	135,862
1 Agricultural laborers (a)	3,323,876	2,788,976	534,900	580,576	135,591
2 Apirarists	1,016	999	17	3	.....
3 Dairymen and dairy women	8,948	8,238	710	136	54
4 Farm and plantation overseers	3,106	2,913	193	1	.....
5 Farmers and planters	4,225,945	4,169,136	56,809	.....	.....
6 Florists	4,550	4,320	230	72	10
7 Gardeners, nurserymen, and vine-growers	51,482	50,173	1,309	1,036	155
8 Stock-drovers	3,449	3,449	.....	110	.....
9 Stock-herders	24,038	24,004	34	2,753	38
10 Stock-raisers	16,528	16,406	122	.....	.....
11 Turpentine farmers and laborers	7,450	7,325	125	178	14
12 Others in agriculture	45	44	1	.....	.....
PROFESSIONAL AND PERSONAL SERVICES	4,074,238	2,712,943	1,361,295	127,565	107,830
13 Actors	4,812	2,992	1,820	18	45
14 Architects	3,375	3,358	17	.....	.....
15 Artists and teachers of art	9,104	7,043	2,061	23	8
16 Auctioneers	2,331	2,328	3	.....	.....
17 Authors, lecturers, and literary persons	1,131	811	320	.....	.....
18 Barbers and hairdressers	44,851	41,949	2,902	471	102
19 Billiard- and bowling-saloon keepers and employes (b)	1,543	1,499	44	10	.....
20 Boarding- and lodging-house keepers	19,058	6,745	12,313	.....	.....
21 Chemists, assayers, and metallurgists	1,989	1,921	68	2	.....
22 Clergymen	64,698	64,533	165	.....	.....
23 Clerks and copyists (not otherwise described)	25,467	23,820	1,647	744	45
24 Clerks in government offices (c)	16,849	14,873	1,976	26	3
25 Clerks in hotels and restaurants	10,916	10,670	246	100	10
26 Collectors and claim agents	4,213	4,187	26	24	.....
27 Dentists	12,314	12,253	61	.....	.....
28 Designers, draughtsmen, and inventors	2,820	2,764	56	7	1
29 Domestic servants	1,075,655	136,745	938,910	23,949	93,211
30 Employes of charitable institutions	2,396	781	1,615	1	20
31 Employes of government (c)	31,601	23,433	8,168	170	12
32 Employes of hotels and restaurants (not clerks)	77,413	46,346	31,065	1,189	685
33 Engineers (civil)	8,261	8,261	.....	.....	.....
34 Hostlers	31,697	31,697	.....	625	.....
35 Hotel keepers	32,453	30,317	2,136	.....	.....
36 Hunters, trappers, guides, and scouts	1,912	1,912	.....	.....	.....
37 Janitors	6,763	6,664	99	14	2
38 Journalists	12,908	12,020	288	.....	.....
39 Laborers (not specified) (a)	1,850,223	1,796,575	53,648	91,539	11,376
40 Launderers and laundresses	121,942	13,744	108,198	180	1,662
41 Lawyers	64,137	64,062	75	.....	.....
42 Livery-stable keepers	14,213	14,180	33	.....	.....
43 Messengers	13,985	13,585	400	8,064	351
44 Midwives	2,118	.....	2,118	.....	.....
45 Musicians (professional) and teachers of music	39,477	17,295	13,182	111	79
46 Nurses	13,483	1,189	12,294	26	313
47 Officers of the army and navy (United States)	2,600	2,600	.....	.....	.....
48 Officials of government (c)	67,081	64,909	2,172	.....	.....
49 Physicians and surgeons	85,671	83,259	2,412	.....	.....
50 Restaurant keepers	13,074	12,228	846	.....	.....

a In agricultural districts many enumerators have reported "agricultural laborers" simply as "laborers".

b To a great extent confused with "hotel", "restaurant," and "saloon" keepers.

c Including national, state, county, city, and town governments.

severally, with the age, sex, and nativity of persons occupied: 1880.

AGE AND SEX—continued.				NATIVITY.							
16 to 59.		60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British Amer-ica.	Other coun-tries.	
Male.	Female.	Male.	Female.								
12,986,111	2,233,115	933,844	70,873	13,897,452	978,854	1,033,190	466,505	205,525	351,103	459,470	
5,888,133	435,920	602,933	22,728	6,857,664	140,307	293,722	104,314	91,836	73,435	109,215	
2,126,811	386,664	81,589	12,645	3,162,474	24,236	48,210	15,216	22,624	21,214	29,902	
904	17	92	.....	891	10	37	42	2	23	6
7,816	622	286	34	5,053	575	1,469	258	87	301	1,205	
2,736	152	176	41	2,780	95	73	51	7	36	74	
3,657,557	47,042	511,579	9,767	3,615,765	107,708	233,390	82,867	68,431	50,635	67,149	
4,063	203	185	17	2,512	337	753	595	26	69	258	
41,317	954	7,820	200	26,887	6,298	8,588	3,888	359	537	4,925	
3,220	.....	119	.....	2,923	140	150	71	7	67	82
20,717	52	532	4	18,245	440	624	704	245	289	3,551	
15,577	102	529	20	12,662	453	424	620	43	268	2,053	
7,074	111	73	.....	7,430	5	4	1	.....	.....	10
41	1	3	.....	42	1	.....	1	.....	1	12
2,446,962	1,215,189	133,416	38,276	3,076,768	415,854	218,867	79,963	52,860	90,614	139,312	
2,939	1,764	35	11	3,531	169	219	445	17	116	315	
3,204	17	154	.....	2,362	92	395	255	27	90	134
6,677	2,022	337	31	6,727	143	902	541	51	187	553	
2,113	3	215	.....	1,933	73	91	101	5	34	44
763	303	108	16	921	21	32	83	5	19	50	
41,634	2,772	444	28	31,945	488	7,814	699	118	1,050	2,746	
1,432	42	37	2	1,232	63	111	45	10	41	41	
5,689	11,175	1,056	1,138	12,294	2,439	1,549	934	278	784	780	
1,824	47	95	1	1,303	76	225	171	12	32	150	
53,639	140	8,894	25	51,967	2,516	4,301	2,589	598	930	1,797	
22,804	1,595	273	7	22,742	545	632	769	76	341	371	
14,253	1,958	564	15	15,299	439	450	344	40	127	150	
10,446	232	124	4	9,393	296	449	256	62	252	203	
3,832	25	381	1	3,271	267	324	186	13	45	107	
11,821	59	432	2	11,450	68	204	193	14	237	139	
2,637	54	120	1	2,003	43	217	314	30	53	169	
168,552	821,841	4,244	24,358	819,651	122,194	43,444	19,477	19,077	22,050	29,762	
741	1,519	39	86	1,462	470	190	112	6	64	92	
26,763	3,089	1,491	67	25,604	2,659	1,242	1,053	147	480	416	
44,542	30,133	617	247	52,652	11,107	4,707	1,890	970	2,126	4,021	
7,708	.....	551	.....	7,097	170	296	357	53	120	168
30,344	.....	738	.....	23,483	4,230	1,820	787	199	695	478
27,670	1,948	2,647	188	23,592	2,609	4,006	1,243	238	853	922	
1,769	.....	143	.....	1,583	13	28	33	13	81	161
5,507	629	543	68	4,214	1,171	595	441	71	99	202	
11,700	284	320	4	10,426	324	541	535	43	188	251	
1,616,504	48,687	88,472	2,585	1,336,845	225,122	114,641	31,383	28,031	50,342	72,859	
13,112	102,342	452	4,794	87,815	14,788	4,870	1,625	658	999	11,187	
60,177	64	3,885	11	60,342	1,008	791	948	89	559	400	
13,632	31	548	2	12,055	866	462	346	51	306	127	
5,453	47	68	2	12,739	305	253	311	49	146	182	
.....	1,253	.....	865	1,234	52	569	69	20	11	172
16,452	12,998	732	105	21,595	536	4,163	1,221	125	475	2,362	
1,061	9,485	102	2,494	9,397	1,595	855	881	89	379	287	
2,491	.....	109	.....	2,238	135	76	62	12	17	60
59,649	2,088	5,260	84	55,772	5,133	2,677	1,696	274	745	784	
75,006	2,268	8,233	164	77,062	1,021	2,640	1,748	176	1,520	1,474	
11,707	817	521	29	7,764	791	2,488	875	120	302	1,034	

TABLE CIII.—OCCUPATIONS—*The United States by classes and severally,*

Occupations.	Persons occupied.	AGE AND SEX.			
		All ages.		10 to 15.	
		Male.	Female.	Male.	Female.
PROFESSIONAL AND PERSONAL SERVICES—continued.					
51. Sextons	2,449	2,435	14	5	.....
52. Showmen and employes of shows	2,604	2,421	183	17	7
53. Soldiers, sailors, and marines (U. S. army and navy) (a)	24,161	24,161	.....	20	.....
54. Teachers and scientific persons	227,710	78,335	154,375	92	569
55. Veterinary surgeons	2,130	2,130	.....	.....	.....
56. Watchmen (private) and detectives	13,384	13,370	14	13	.....
57. Whitewashers	3,316	3,301	15	10	.....
58. Others in professional and personal services	4,570	3,860	710	38	.....
TRADE AND TRANSPORTATION					
	1,810,256	1,750,892	59,364	26,078	2,547
59. Agents (not specified)	18,523	18,152	371	79	21
60. Bankers and brokers of money and stocks	15,180	15,112	68	.....	.....
61. Boatmen and watermen	20,368	20,357	11	470	.....
62. Bookkeepers and accountants in stores	59,790	57,425	2,365	147	29
63. Brokers (commercial)	4,193	4,128	65	.....	.....
64. Canalmen	4,329	4,281	48	130	.....
65. Clerks in stores	353,444	329,722	23,722	14,596	1,541
66. Clerks and bookkeepers in banks	10,257	10,183	74	72	2
67. Clerks and bookkeepers in express companies	1,856	1,848	8	7	.....
68. Clerks and bookkeepers in insurance offices	2,830	2,777	53	29	1
69. Clerks and bookkeepers in railroad offices	13,331	12,274	57	71	3
70. Commercial travelers	28,158	27,886	272	22	1
71. Draymen, hackmen, teamsters, etc.	177,586	177,586	.....	1,961	.....
72. Employes in warehouses	5,022	4,616	206	109	39
73. Employes of banks (not clerks)	1,070	1,049	21	34	.....
74. Employes of insurance companies (not clerks)	13,146	13,041	105	33	1
75. Employes of railroad companies (not clerks)	236,058	235,611	447	875	27
76. Hucksters and peddlers	53,491	50,999	2,492	897	72
77. Milkmen and milkwomen	9,242	8,916	326	122	11
78. Newspaper criers and carriers	3,374	3,298	76	941	5
79. Officials and employes of express companies (not clerks)	13,004	12,993	11	153	2
80. Officials and employes of street railroad companies	11,925	11,921	4	31	.....
81. Officials and employes of telegraph companies	22,809	21,673	1,131	1,450	48
82. Officials and employes of telephone companies	1,197	1,050	147	95	3
83. Officials and employes of trading and transportation companies (not specified)	9,702	9,680	16	25	.....
84. Officials of banks	4,421	4,421	.....	.....	.....
85. Officials of insurance companies	1,774	1,774	.....	.....	.....
86. Officials of railroad companies	2,069	2,069	.....	.....	.....
87. Packers	4,176	3,650	526	97	59
88. Pilots	3,770	3,770	.....	1	.....
89. Porters and laborers in stores and warehouses	32,192	29,338	2,254	2,762	397
90. Sailors (a)	60,070	60,070	.....	350	.....
91. Salesmen and saleswomen	32,279	24,535	7,744	133	282
92. Saloon keepers and bartenders	68,461	67,153	1,308	282	2
93. Shippers and freighters	5,166	5,160	6	10	.....
94. Steamboat men and women	12,365	12,182	183	84	5
95. Stewards and stewardesses	2,283	1,955	208	6	.....
96. Toll-gate and bridge keepers	2,303	1,885	418	9	1
97. Traders and dealers (not specified)	112,849	109,094	3,746	.....	.....
98. Traders and dealers in agricultural implements	1,999	1,997	2	.....	.....
99. Traders and dealers in books and stationery	4,982	4,783	199	.....	.....
100. Traders and dealers in boots and shoes	9,303	9,807	186	.....	.....
101. Traders and dealers in cabinet ware	7,419	7,335	84	.....	.....
102. Traders and dealers in cigars and tobacco	11,866	11,322	544	.....	.....
103. Traders and dealers in clothing and men's furnishing goods	10,073	9,874	199	.....	.....
104. Traders and dealers in coal and wood	10,871	10,781	90	.....	.....
105. Traders and dealers in cotton and wool	2,494	2,484	10	.....	.....

a In a census of the United States "sailors" at sea, when the enumeration is taken, are liable to be omitted unless they are actual members of families which are enumerated.

with the age, sex, and nativity of persons occupied: 1880—Continued.

AGE AND SEX—continued.				NATIVITY.							
16 to 59.		60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British Amer-ica.	Other coun-tries.	
Male.	Female.	Male.	Female.								
1,968	11	462	3	1,453	360	253	237	21	36	89	51
2,300	173	44	3	2,043	80	135	147	3	65	131	52
23,577	.....	564	.....	14,944	3,716	2,727	1,213	209	507	845	53
71,068	153,071	2,175	799	211,671	3,916	4,328	2,319	534	2,617	2,325	54
1,840	.....	290	.....	1,457	104	156	252	18	71	72	55
12,098	12	1,259	2	6,936	3,293	1,389	866	174	286	440	56
2,955	14	336	1	2,714	72	339	67	13	41	70	57
3,450	677	363	33	3,436	276	210	222	31	96	190	58
1,672,171	54,849	52,643	1,968	1,351,695	138,518	152,491	56,498	16,214	33,119	61,721	
17,337	831	736	19	15,261	667	1,021	819	100	314	341	59
13,824	57	1,288	11	12,944	339	829	486	27	176	379	60
10,383	9	504	2	16,896	1,638	550	327	262	425	270	61
56,163	2,226	1,115	10	49,675	1,672	3,240	2,693	241	1,041	1,228	62
3,687	51	441	14	3,004	207	378	239	26	63	276	63
4,425	45	126	1	3,742	320	94	58	10	65	40	64
312,942	22,105	2,784	76	303,670	10,480	17,330	8,310	2,155	5,567	5,932	65
9,882	71	129	1	9,498	117	230	222	21	95	74	66
1,816	8	25	.....	1,632	75	38	66	4	31	20	67
2,702	52	46	.....	2,603	43	59	80	2	18	25	68
12,682	52	121	2	10,887	489	153	476	30	223	93	69
27,260	256	604	15	23,596	839	1,596	1,014	86	536	491	70
170,971	.....	4,654	.....	123,275	22,911	13,012	4,470	1,020	4,484	3,414	71
4,539	166	168	5	3,616	523	350	190	48	69	320	72
936	20	79	1	900	75	39	37	4	4	11	73
12,101	102	907	2	11,271	262	815	405	40	171	182	74
231,503	413	3,233	7	169,380	32,407	9,748	6,565	4,548	5,307	8,103	75
47,279	2,009	2,823	411	30,682	5,156	7,173	1,657	183	726	7,914	76
8,481	282	313	32	5,496	1,078	1,843	236	58	124	407	77
2,253	69	104	2	2,524	124	460	121	10	45	90	78
12,513	9	327	.....	10,133	1,128	851	403	74	201	214	79
11,769	4	121	.....	8,229	2,217	711	328	58	257	125	80
20,173	1,082	55	1	20,738	550	249	484	76	588	124	81
953	144	2	.....	1,092	29	1	26	1	39	9	82
9,349	16	312	.....	4,789	2,871	577	448	242	265	510	83
3,938	.....	483	.....	4,116	39	108	90	6	36	27	84
1,600	.....	174	.....	1,546	40	80	62	4	21	21	85
1,963	.....	106	.....	1,855	55	31	79	2	40	7	86
3,432	467	71	4	2,491	624	482	176	36	99	268	87
3,520	.....	249	.....	3,324	123	75	115	27	51	55	88
26,583	1,829	593	28	21,401	3,633	3,880	805	395	510	1,568	89
58,028	.....	1,692	.....	41,984	3,659	2,292	3,239	2,397	2,001	3,998	90
24,023	7,439	379	23	26,370	1,628	2,054	1,177	61	459	541	91
65,486	1,237	1,405	69	30,261	8,450	20,667	2,296	737	1,584	4,466	92
5,015	6	135	.....	4,078	214	159	253	46	112	304	93
11,812	172	286	6	10,219	697	349	414	132	279	275	94
1,916	283	63	15	1,535	190	123	173	15	57	180	95
1,469	379	407	38	1,852	202	122	71	6	24	26	96
102,866	3,410	6,228	336	86,791	4,136	11,085	3,527	657	1,420	5,224	97
1,945	2	52	.....	1,737	31	84	54	21	50	22	98
4,531	189	252	10	3,826	263	407	291	19	56	120	99
9,246	173	561	12	6,454	724	1,760	442	62	172	379	100
6,942	80	303	4	5,032	359	1,133	380	77	136	302	101
10,865	513	467	21	7,412	469	2,604	413	37	106	827	102
9,481	178	393	21	5,112	336	3,127	347	52	124	975	103
10,057	86	724	4	8,058	903	956	449	51	175	279	104
2,318	10	168	.....	2,023	112	146	138	4	13	58	105

TABLE CIII.—OCCUPATIONS—*The United States by classes and severally,*

Occupations.	Persons occupied.	AGE AND SEX.			
		All ages.		10 to 15.	
		Male.	Female.	Male.	Female.
TRADE AND TRANSPORTATION—continued.					
106 Traders and dealers in crockery, china, glass, and stone ware.	2,373	2,249	124	.....	.....
107 Traders and dealers in drugs and medicines.....	27,700	27,580	120	.....	.....
108 Traders and dealers in dry goods, fancy goods, and notions.	45,831	41,771	4,060	.....	.....
109 Traders and dealers in gold and silver ware and jewelry	2,305	2,264	41	.....	.....
110 Traders and dealers in groceries.....	161,849	98,055	3,794	.....	.....
111 Traders and dealers in hats, caps, and furs.....	4,809	4,722	87	.....	.....
112 Traders and dealers in ice.....	2,854	2,842	12	.....	.....
113 Traders and dealers in iron, tin, and copper ware.....	15,076	15,014	62	.....	.....
114 Traders and dealers in junk.....	3,574	3,503	71	.....	.....
115 Traders and dealers in leather, hides, and skins.....	2,382	2,380	2	.....	.....
116 Traders and dealers in liquors and wines.....	13,590	13,368	132	.....	.....
117 Traders and dealers in live-stock.....	12,596	12,582	14	.....	.....
118 Traders and dealers in lumber.....	11,263	11,255	8	.....	.....
119 Traders and dealers in marble, stone, and slate.....	1,405	1,393	7	.....	.....
120 Traders and dealers in music and musical instruments.	1,966	1,861	45	.....	.....
121 Traders and dealers in newspapers and periodicals...	2,729	2,622	107	.....	.....
122 Traders and dealers in oils, paints, and turpentine...	1,940	1,929	14	.....	.....
123 Traders and dealers in paper and paper stock.....	1,862	1,815	47	.....	.....
124 Traders and dealers in produce and provisions.....	35,129	34,599	530	.....	.....
125 Traders and dealers in real estate.....	11,253	11,214	39	.....	.....
126 Traders and dealers in sewing machines.....	6,577	6,478	99	.....	.....
127 Undertakers.....	5,113	5,053	55	4	1
128 Weighers, gaugers, and measurers.....	3,302	3,291	11	8	.....
129 Others in trade and transportation.....	177	177	.....	3	.....
MANUFACTURING, MECHANICAL, AND MINING INDUSTRIES.	3,837,112	3,205,124	631,988	86,677	46,930
130 Agricultural implement makers (a).....	4,891	4,879	12	103	1
131 Artificial-flower makers.....	3,399	512	2,887	40	729
132 Apprentices to trades (b).....	44,170	40,313	3,857	7,261	1,239
133 Bag makers.....	1,408	669	739	84	110
134 Bakers.....	41,309	40,246	1,063	605	47
135 Basket makers.....	5,654	5,058	596	235	39
136 Blacksmiths.....	172,726	172,726	.....	556	.....
137 Bleachers, dyers, and scourers.....	8,222	7,573	649	201	32
138 Blind, door, and sash makers.....	4,946	4,946	.....	144	.....
139 Boat makers.....	2,063	2,063	.....	15	.....
140 Bone and ivory workers.....	1,888	1,717	171	41	9
141 Bookbinders and finishers.....	13,833	8,342	5,491	355	405
142 Boot and shoe makers.....	194,079	173,072	21,007	2,476	1,177
143 Bottlers and mineral-water makers.....	2,681	2,012	69	103	7
144 Box-factory operatives.....	15,762	8,632	7,130	708	1,022
145 Brass founders and workers.....	11,563	10,831	737	396	91
146 Brewers and maltsters.....	16,278	16,217	61	138	1
147 Brick and tile makers (c).....	26,052	35,984	68	1,601	6
148 Bridge builders and contractors (d).....	2,587	2,587	.....	5	.....
149 Britannia and japanned ware makers.....	1,375	1,261	114	32	8
150 Broom and brush makers.....	8,479	7,837	642	464	124
151 Builders and contractors (d).....	10,804	10,793	11	6	.....
152 Butchers.....	76,241	76,241	.....	568	.....
153 Button-factory operatives.....	4,872	2,480	2,392	334	321
154 Cabinet-makers.....	50,654	50,174	480	1,525	90
155 Candle, soap, and tallow makers.....	2,923	2,718	205	166	34

a Generally reported as "iron founders," "carpenters," "machinists," "painters and varnishers," etc. b In 1870 "apprentices" were, as far as possible, included in the account of their respective trades. Only those whose avocations could not be separately determined were reported under the title "apprentices (not specified)".

c The unskilled workmen employed in brick-yards are generally reported as common "laborers".

d See "builders and contractors (not specified)" and "railroad builders and contractors".

with the age, sex, and nativity of persons occupied: 1880—Continued.

AGE AND SEX—continued.				NATIVITY.							
16 to 59.		60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.	Male.	Female.								
2,091	112	158	12	1,321	169	483	193	10	25	172	106
26,784	114	796	6	23,521	330	1,842	791	100	443	613	107
39,693	3,741	2,078	319	33,101	2,299	6,058	1,704	210	538	1,931	108
2,143	40	121	1	1,286	54	550	162	13	23	217	109
92,256	3,502	5,799	292	64,331	11,668	17,212	3,292	520	1,379	3,447	110
4,309	82	323	5	2,974	374	900	251	19	65	226	111
2,743	11	99	1	2,112	213	269	93	30	65	72	112
14,261	59	753	3	12,177	441	1,274	593	79	235	277	113
3,287	63	216	8	1,367	1,267	395	292	11	59	273	114
2,196	1	184	1	1,699	111	460	74	8	18	102	115
13,013	120	355	12	4,945	3,612	3,283	449	63	186	932	116
12,068	12	514	2	10,542	544	722	392	27	192	177	117
10,573	7	682	1	9,808	198	439	327	53	310	123	118
1,307	7	91	-----	1,057	123	57	111	4	28	25	119
1,766	44	95	1	1,512	20	199	95	11	31	38	120
2,481	100	141	7	2,007	202	243	176	5	30	66	121
1,810	13	116	1	1,478	84	176	117	8	16	61	122
1,607	45	148	2	943	238	385	110	4	6	176	123
32,940	454	1,659	76	26,197	2,075	3,029	1,279	147	569	1,832	124
9,987	26	1,227	3	9,210	553	610	434	48	191	207	125
6,356	97	128	2	5,619	138	287	212	65	173	81	126
4,581	45	473	9	4,056	360	401	135	16	69	76	127
3,097	11	186	-----	2,504	322	133	151	26	117	49	128
169	-----	5	-----	108	12	8	9	2	9	29	129
2,978,845	577,157	139,602	7,901	2,611,325	284,175	368,110	225,730	44,615	153,935	149,222	
4,626	11	150	-----	3,255	227	551	141	446	109	162	130
456	2,148	16	10	2,530	176	226	71	5	20	371	131
33,082	2,618	-----	-----	40,083	594	1,310	736	163	549	730	132
576	621	9	8	966	151	149	58	1	13	40	133
28,554	965	1,087	51	18,108	2,675	15,238	1,821	286	971	2,210	134
4,048	523	775	38	3,689	281	1,070	202	78	188	203	135
161,633	-----	10,537	-----	125,596	12,742	15,129	7,508	2,254	6,096	3,401	136
7,028	599	844	18	4,154	1,226	985	1,171	72	156	458	137
4,658	-----	144	-----	3,883	120	475	121	68	171	106	138
1,846	-----	202	-----	1,685	113	77	89	12	67	20	139
1,558	160	118	2	1,258	265	206	93	4	20	42	140
7,695	5,065	292	21	10,770	773	1,073	640	97	216	264	141
156,579	19,755	14,017	75	124,691	17,438	27,815	6,701	2,513	7,581	7,340	142
1,861	62	48	-----	1,182	171	513	58	19	35	113	143
7,738	6,095	186	13	12,893	651	1,325	306	38	307	342	144
10,224	641	211	5	7,111	2,015	1,015	843	88	278	218	145
15,770	57	319	3	4,057	752	9,925	358	63	178	945	146
33,719	61	604	1	24,577	2,927	3,122	883	461	3,447	1,227	147
2,508	-----	74	-----	1,922	253	89	112	45	120	37	148
1,192	106	37	-----	899	153	100	174	1	17	31	149
7,027	509	346	9	6,258	381	979	282	54	276	249	150
9,951	11	836	-----	7,250	1,065	612	740	53	333	151	151
73,701	-----	1,072	-----	47,011	3,484	18,166	3,119	289	1,124	3,048	152
2,096	2,065	50	6	3,793	448	177	201	8	136	49	153
45,521	374	3,128	16	29,498	1,132	13,328	1,461	1,267	1,420	2,548	154
2,423	167	119	4	1,676	379	620	120	28	43	157	155

TABLE CIII.—OCCUPATIONS—*The United States by classes and severally,*

Occupations.	Persons occupied.	AGE AND SEX.			
		All ages.		10 to 15.	
		Male.	Female.	Male.	Female.
MANUFACTURING, MECHANICAL, ETC.—continued.					
156 Car makers	4,708	4,708		69	
157 Carpenters and joiners	373,143	373,143		460	
158 Carpet makers (a)	17,068	9,962	7,106	654	640
159 Carriage and wagon makers	49,881	49,743	138	412	6
160 Charcoal and lime burners	5,851	5,851		60	
161 Cheese makers	4,570	4,230	340	49	3
162 Chemical-works employes	2,923	2,509	414	75	43
163 Cigar makers (b)	56,599	51,267	5,332	1,799	647
164 Clerks and bookkeepers in manuf'g establishments ..	10,114	9,921	193	120	12
165 Clock and watch makers and repairers	13,820	12,002	1,818	236	86
166 Confectioners	13,692	11,892	1,800	169	123
167 Coopers	49,138	49,138		686	
168 Copper workers	2,342	2,326	16	32	
169 Corset makers	4,660	795	3,865	81	374
170 Cotton-mill operatives (c)	169,771	78,292	91,479	13,115	14,891
171 Distillers and rectifiers	3,245	3,237	8	25	
172 Employes in manuf'g establishments (not specified) ..	34,536	25,885	8,651	1,336	915
173 Engineers and firemen	79,628	79,628		91	
174 Engravers	4,577	4,474	103	63	2
175 Fertilizer establishment operatives	1,333	1,371	12	15	5
176 File makers, cutters, and grinders	1,839	1,817	22	110	4
177 Fishermen and oystermen (d)	41,352	41,287	65	819	4
178 Flax dressers	1,894	904	990	193	186
179 Fur workers	1,580	964	616	44	45
180 Galoon, gimp, and tassel makers	2,235	693	1,542	70	190
181 Gas-works employes	4,695	4,680	15	65	
182 Gilders	1,763	1,703	60	32	5
183 Glass-works operatives	17,994	17,370	564	2,313	94
184 Glove makers	4,511	2,558	1,953	47	106
185 Gold and silver workers and jewelers	28,405	26,438	1,967	463	143
186 Gun- and lock-smiths	10,572	10,377	195	180	16
187 Hair cleaners, dressers, and workers	1,965	966	999	127	96
188 Harness and saddle makers	39,960	38,409	1,551	308	28
189 Hat and cap makers	16,860	13,004	3,856	438	329
190 Hosiery and knitting-mill operatives (a)	12,194	4,334	7,860	666	1,184
191 Iron and steel works and shops operatives (e)	114,539	114,137	402	2,595	38
192 Lace makers	1,708	254	1,454	18	174
193 Lead and zinc works operatives	2,105	2,105		58	
194 Leather case and pocket-book makers	1,397	1,073	324	149	48
195 Leather curriers, dressers, finishers, and tanners ..	29,842	29,642	200	397	5
196 Lumbermen and raftsmen	30,651	30,651		154	
197 Machinists	101,130	101,130		572	
198 Manufacturers	44,019	43,612	407		
199 Marble and stone cutters	32,842	32,842		155	
200 Masons, brick and stone	102,473	102,473		160	
201 Meat and fruit preserving establishment employes ..	2,860	2,021	839	113	95
202 Meat packers, curers, and picklers	3,436	3,111	325	100	70
203 Mechanics (not specified)	7,858	7,853	5	30	
204 Mill and factory operatives (not specified)	30,836	22,893	8,186	2,348	1,383
205 Millers	53,440	53,363	77	294	4
206 Milliners, dressmakers, and seamstresses (f)	285,401	3,473	281,928	86	4,637
207 Miners	234,228	233,996	79	11,144	14
208 Mirror and picture-frame makers	2,503	2,390	113	229	37
209 Nail makers (g)	5,303	5,429	374	277	12
210 Officials of manufacturing and mining companies ..	8,198	8,179	19		

a See "woolen-mill operatives" and "mill and factory operatives (not specified)".

b See "tobacco workers".

c See "print-works operatives" and "mill and factory operatives (not specified)".

d Largely reported as "sailors", while many who follow the avocation of fishermen for only a portion of the year are reported under some other branch of industry.

e Including foundries, furnaces, and rolling-mills. Large numbers employed in these establishments are returned as "operatives" or "laborers", without designation of trade—see "nail makers" and "stove, furnace, and grate makers".

f In 1870 "seamstresses" were included with "tailors and tailoresses"—see "shirt, collar, and cuff makers" and "tailors and tailoresses".

g See "iron and steel works operatives".

with the age, sex, and nativity of persons occupied: 1880—Continued.

AGE AND SEX—continued.				NATIVITY.							
16 to 59.		60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British Amer-ica.	Other coun-tries.	
Male.	Female.	Male.	Female.								
4,510	-----	129	-----	3,101	351	568	245	84	171	98	156
345,656	-----	27,027	-----	287,452	14,268	30,388	13,209	5,309	15,636	7,481	157
8,223	6,044	1,085	422	9,634	3,234	1,514	1,918	110	877	281	158
40,102	129	3,229	3	37,634	1,391	6,193	1,418	544	1,591	1,110	159
5,593	-----	192	-----	3,369	332	355	143	135	251	1,266	160
4,113	324	68	13	3,863	34	179	138	10	86	260	161
2,342	371	92	-----	1,657	397	560	153	5	38	113	162
48,925	4,605	545	20	31,371	852	11,979	1,416	208	524	10,249	163
9,670	180	131	1	8,834	289	366	364	26	131	104	164
11,112	1,730	604	2	9,584	598	1,580	757	209	309	792	165
11,317	1,568	406	109	8,154	678	2,696	819	41	220	1,084	166
44,509	-----	3,943	-----	32,966	3,274	8,861	814	379	1,323	1,521	167
2,172	16	122	-----	1,191	350	374	200	55	72	100	168
709	3,480	5	11	3,877	353	81	164	1	137	42	169
63,717	76,207	1,460	381	94,010	19,732	1,998	16,237	279	36,385	1,130	170
3,107	8	105	-----	2,443	199	393	57	7	26	120	171
23,855	7,671	694	65	24,715	2,649	3,305	1,656	196	869	1,146	172
78,087	-----	1,450	-----	57,984	6,988	4,315	6,552	521	1,980	1,288	173
4,305	101	106	-----	3,179	137	512	425	31	52	241	174
1,332	7	24	-----	1,101	117	87	19	21	8	30	175
1,680	17	27	1	1,144	158	137	291	6	43	60	176
38,514	54	1,954	7	30,324	1,036	765	581	913	2,816	4,917	177
656	800	25	4	1,056	441	20	275	16	70	16	178
869	563	51	8	1,807	204	330	84	9	21	125	179
596	1,347	27	5	1,683	57	332	56	6	30	71	180
4,460	15	155	-----	2,393	1,500	201	232	35	56	78	181
1,618	57	53	-----	1,069	103	320	142	9	29	91	182
14,836	467	221	3	13,479	1,152	1,474	1,039	59	162	578	183
2,447	1,819	64	28	3,667	162	195	288	9	79	111	184
23,143	1,810	832	14	20,711	924	3,232	1,552	249	441	1,276	185
9,512	178	685	1	6,863	550	1,947	564	97	104	447	186
801	897	38	12	1,345	130	227	79	8	50	126	187
36,182	1,510	1,919	13	29,769	1,966	4,393	1,129	242	1,214	1,246	188
12,116	3,506	450	24	12,217	1,987	1,963	623	36	140	489	189
3,526	6,600	142	76	9,774	610	387	871	17	428	107	190
109,648	364	1,894	-----	72,931	16,730	9,307	10,174	1,046	2,219	2,132	191
222	1,271	14	9	1,298	138	97	101	4	13	57	192
1,956	-----	57	-----	933	465	441	193	16	82	125	193
907	275	17	1	893	38	377	33	2	6	48	194
28,101	193	1,144	2	16,193	6,027	4,112	945	437	1,165	963	195
20,889	-----	698	-----	20,175	882	980	747	1,316	5,634	917	196
97,064	-----	3,494	-----	70,672	6,906	8,206	9,326	972	2,732	2,396	197
40,605	378	3,007	29	32,464	1,447	5,072	2,664	153	702	1,507	198
31,789	-----	898	-----	18,197	6,173	2,894	3,268	256	1,083	1,020	199
94,384	-----	7,729	-----	60,237	12,611	11,857	5,737	1,322	2,228	2,491	200
1,869	725	39	19	2,060	199	199	66	6	121	203	201
2,924	238	87	17	1,520	468	523	116	22	39	748	202
7,255	5	568	-----	6,741	210	313	286	61	132	115	203
19,682	6,725	620	78	22,882	2,127	1,686	1,871	243	1,281	746	204
49,669	65	4,000	8	45,228	898	3,373	1,948	362	898	733	205
2,932	273,455	405	3,816	239,533	16,200	9,300	7,109	1,659	7,651	4,499	206
218,695	63	4,310	2	107,993	25,462	10,027	47,456	4,829	5,676	32,805	207
2,121	76	40	-----	1,546	94	417	83	24	45	294	208
5,656	361	96	1	5,126	227	135	162	9	94	50	209
7,733	18	446	1	6,759	224	298	628	22	140	127	210

TABLE CIII.—OCCUPATIONS—*The United States by classes and severally,*

Occupations.	Persons occupied.	AGE AND SEX.			
		All ages.		10 to 15.	
		Male.	Female.	Male.	Female.
MANUFACTURING, MECHANICAL, ETC.—continued.					
211 Oil-mill and refinery operatives	3, 929	3, 897	32	71	2
212 Oil-well operators and laborers	7, 340	7, 340		131	
213 Organ makers	2, 437	2, 373	64	44	3
214 Painters and varnishers	128, 556	128, 290	266	859	8
215 Paperhangers	5, 013	4, 859	154	33	3
216 Paper-mill operatives	21, 430	14, 711	6, 719	635	506
217 Pattern makers	5, 822	5, 822		34	
218 Photographers	9, 090	9, 539	451	58	5
219 Pianoforte makers and tuners	5, 413	5, 376	37	100	2
220 Plasterers	22, 083	22, 083		28	
221 Plumbers and gasfitters	10, 383	10, 383		141	
222 Potters	7, 233	6, 644	589	581	131
223 Printers, lithographers, and stereotypers	72, 726	69, 370	3, 456	1, 022	100
224 Print-works operatives (a)	5, 419	4, 318	1, 101	632	159
225 Publishers of books, maps, and newspapers	2, 781	2, 745	36	3	
226 Pump makers	1, 366	1, 366		10	
227 Quarrymen	15, 169	15, 169		1, 330	
228 Quartz- and stamp-mill operatives and laborers	1, 449	1, 449		19	
229 Bag pickers	2, 206	1, 450	776	96	82
230 Railroad builders and contractors (b)	1, 206	1, 206			
231 Roofers and slaters	4, 026	4, 026		23	
232 Rope and cordage makers	3, 514	3, 040	474	311	61
233 Rubber-factory operatives	6, 350	4, 292	2, 058	185	192
234 Sail and awning makers	2, 950	2, 843	107	85	7
235 Salt makers	1, 431	1, 390	41	38	7
236 Saw- and planing-mill operatives	77, 050	77, 050		2, 116	
237 Sawyers	5, 195	5, 195		33	
238 Scale and rule makers	1, 027	1, 027		39	
239 Screw makers	1, 361	796	565	68	143
240 Sewing-machine factory operatives	2, 725	2, 664	61	120	2
241 Sewing-machine operators	7, 505	1, 700	5, 805	66	276
242 Shingle and lath makers	5, 166	5, 125	41	259	6
243 Ship carpenters, calkers, riggers, and smiths	17, 452	17, 452		20	
244 Shirt, cuff, and collar makers (c)	11, 823	3, 163	8, 660	135	569
245 Silk-mill operatives	16, 071	8, 860	9, 211	1, 261	1, 986
246 Starch makers	1, 385	1, 218	167	48	18
247 Stave, shook, and heading makers	4, 061	4, 061		324	
248 Steam-boiler makers	12, 771	12, 771		147	
249 Stove, furnace, and grate makers (d)	3, 341	3, 341		80	
250 Straw workers	4, 229	1, 531	2, 698	38	62
251 Sugar makers and refiners	2, 327	2, 313	14	14	1
252 Tailors and tailoresses (e)	133, 756	81, 658	52, 098	1, 169	3, 768
253 Thread-mill operatives	3, 259	1, 148	2, 111	199	239
254 Tanners and tinware makers	42, 818	41, 781	1, 037	689	78
255 Tool and cutlery makers	13, 749	13, 214	535	526	70
256 Trunk, valise, and carpet-bag makers	3, 013	2, 958	55	176	7
257 Tobacco-factory operatives (e)	20, 446	14, 910	5, 536	2, 091	1, 030
258 Umbrella and parasol makers	1, 967	1, 004	873	78	48
259 Upholsterers	10, 443	9, 901	542	115	13
260 Wheelwrights	15, 692	15, 692		216	
261 Wire makers and workers	7, 170	6, 925	245	305	30
262 Woodchoppers	13, 731	12, 731		146	
263 Wood turners, carvers, and woodenware makers	12, 964	12, 771	193	278	20
264 Woolen-mill operatives (f)	88, 019	52, 504	35, 506	5, 146	4, 782
265 Others in manufacturing, mechanical, and mining industries	13, 542	10, 511	3, 031	268	316

a See "cotton-mill operatives" and "mill and factory operatives (not specified)".

b See "builders and contractors (not specified)" and "bridge builders and contractors".

c See "milliners, dressmakers, and seamstresses".

d See "iron and steel works operatives".

e See "cigar makers".

f See "carpet makers", "hosiery and knitting mill operatives," and "mill and factory operatives (not specified)".

with the age, sex, and nativity of persons occupied: 1880—Continued.

AGE AND SEX—continued.				NATIVITY.						
16 to 59.		60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British Amer-ica.	Other coun-tries.
Male.	Female.	Male.	Female.							
3,751	26	75	4	2,498	429	650	158	26	67	110 211
7,134	-----	75	-----	6,164	428	161	232	22	279	56 212
2,264	60	65	1	1,838	80	173	113	77	98	53 213
124,063	253	3,428	5	97,767	6,177	10,260	6,334	1,758	3,158	3,122 214
4,693	147	133	4	4,038	176	328	290	12	62	107 215
13,595	6,124	481	89	14,315	3,753	703	1,135	80	1,081	363 216
5,364	-----	424	-----	4,104	196	456	638	68	164	196 217
9,316	443	165	3	8,261	110	520	465	110	299	225 218
5,015	35	261	-----	2,773	182	1,709	201	153	139	256 219
21,234	-----	821	-----	15,998	2,627	1,220	1,222	163	487	366 220
19,047	-----	195	-----	13,980	2,547	735	1,485	59	896	190 221
5,821	455	242	3	4,763	461	670	1,056	43	71	169 222
66,348	3,349	930	7	60,365	2,828	3,338	3,138	376	1,657	1,024 223
3,564	941	122	1	3,302	985	170	780	30	95	57 224
2,615	36	127	-----	2,326	93	104	139	9	64	46 225
1,230	-----	126	-----	1,174	22	80	38	9	24	18 226
13,358	-----	481	-----	8,226	3,068	742	1,624	546	507	396 227
1,424	-----	6	-----	805	128	92	142	51	101	130 228
1,163	610	171	84	643	255	291	33	3	8	973 229
1,157	-----	49	-----	875	143	28	67	39	40	14 230
3,899	-----	104	-----	2,534	602	255	475	12	88	60 231
2,578	409	151	4	2,359	367	456	161	19	55	117 232
3,994	1,857	113	9	4,143	1,230	486	268	13	109	69 233
2,557	96	201	4	2,168	315	111	167	92	90	107 234
1,322	34	30	-----	710	243	212	24	12	141	89 235
73,871	-----	1,063	-----	56,468	1,714	4,967	1,118	2,956	6,933	2,894 236
4,936	-----	226	-----	4,214	160	366	151	31	192	81 237
952	-----	35	-----	720	48	93	44	6	91	25 238
719	421	9	1	990	187	39	85	6	37	17 239
2,513	59	31	-----	2,024	209	230	126	26	71	39 240
1,615	5,514	19	15	5,345	795	386	257	15	163	604 241
4,736	35	130	-----	4,082	81	153	73	86	514	177 242
15,879	-----	1,544	-----	11,847	1,493	632	1,192	364	1,417	507 243
2,967	8,006	61	85	9,098	1,219	511	280	34	175	506 244
7,389	7,105	190	30	11,397	1,365	1,421	1,875	89	186	1,741 245
1,138	149	32	-----	823	263	157	58	13	39	32 246
3,693	-----	44	-----	3,511	72	180	43	38	174	43 247
12,431	-----	193	-----	6,943	2,683	841	1,668	76	346	212 248
3,203	-----	58	-----	2,302	323	427	128	52	41	68 249
1,439	2,605	54	31	3,857	122	35	92	17	81	25 250
2,219	13	80	-----	653	268	1,078	54	24	23	227 251
73,738	47,238	6,751	1,092	62,175	10,297	37,684	5,016	4,057	2,314	12,213 252
935	-----	14	-----	2,120	465	81	403	2	290	8 253
40,049	1,871	1,052	4	32,482	1,833	4,609	1,594	312	929	1,058 254
12,322	955	248	-----	8,380	937	1,566	1,574	118	759	475 255
2,717	48	65	-----	1,025	161	629	81	5	55	147 256
12,006	4,433	213	64	18,678	402	663	141	39	82	458 257
951	816	65	9	1,302	252	168	90	1	11	58 258
9,538	512	248	17	6,497	693	2,043	515	201	269	375 259
14,098	-----	1,378	-----	12,350	681	1,453	333	45	425	305 260
6,514	215	106	-----	4,041	1,051	782	542	276	189	288 261
12,104	-----	481	-----	8,578	235	251	299	173	1,658	1,625 262
12,040	171	453	2	8,384	438	2,284	556	163	376	563 263
45,304	30,110	2,094	614	53,443	12,737	3,762	10,494	482	6,068	1,006 264
9,744	2,490	495	231	9,537	1,120	1,248	629	111	237	609 265

TABLE CIV.—OCCUPATIONS—Number of persons engaged in the

Occupations.	United States.	Ala.	Ariz.	Ark.
ALL OCCUPATIONS	17,392,099	492,790	22,271	260,692
AGRICULTURE.....	7,070,493	380,630	3,435	216,655
1 Agricultural laborers (a).....	3,323,876	235,777	596	107,479
2 Farmers and planters.....	4,223,045	143,811	1,725	108,775
3 Gardeners, nurserymen, and vine-growers.....	51,482	801	53	239
4 Stock raisers, drovers, and herders.....	54,075	100	1,039	56
5 Turpentine farmers and laborers.....	7,450	1	.....	.....
6 Others in agriculture.....	17,685	140	22	106
PROFESSIONAL AND PERSONAL SERVICES.....	4,074,238	72,211	8,210	23,466
7 Artists and teachers of art.....	9,104	47	8	37
8 Barbers and hairdressers.....	44,851	306	59	268
9 Boarding- and lodging-house keepers.....	19,078	103	8	152
10 Clergymen.....	64,698	1,215	26	940
11 Clerks and copyists (not specified).....	25,467	38	13	7
12 Dentists.....	12,314	167	7	79
13 Domestic servants.....	1,075,655	20,386	466	6,225
14 Engineers (civil).....	8,261	73	29	80
15 Hotel and restaurant keepers and employes.....	139,836	825	311	793
16 Journalists.....	12,308	75	15	81
17 Laborers.....	1,859,223	36,266	4,784	7,764
18 Launderers and laundresses.....	121,942	4,820	356	1,205
19 Lawyers.....	64,137	798	118	745
20 Livery-stable keepers and hostlers.....	45,910	356	70	167
21 Musicians and teachers of music.....	30,477	180	26	90
22 Officers, soldiers, and sailors (United States army and navy) (b).....	26,761	83	1,562	125
23 Officials and employes (civil) of government (c).....	115,531	1,291	135	1,605
24 Physicians and surgeons.....	85,671	1,552	71	1,892
25 Teachers.....	227,710	2,952	60	1,538
26 Watchmen (private) and detectives.....	13,384	119	4	43
27 Others in professional and personal service.....	77,920	554	76	288
TRADE AND TRANSPORTATION.....	1,810,256	16,953	3,252	9,233
<i>Trade.</i>				
28 Agents (not specified).....	18,523	87	16	60
29 Clerks, salesmen, and accountants in stores.....	445,513	4,644	404	2,501
30 Commercial travelers, hucksters, and peddlers.....	81,649	482	33	244
31 In banking and brokerage of money and stocks.....	30,928	148	25	68
32 In insurance.....	17,750	70	2	26
33 Saloon keepers and bartenders.....	68,461	336	208	328
34 Traders and dealers.....	481,450	5,331	631	3,807
<i>Transportation.</i>				
35 Draymen, hackmen, teamsters, etc.....	177,586	1,430	746	576
36 Officials and employes of express companies.....	14,860	56	11	19
37 Officials and employes of railroad companies.....	250,453	2,642	1,004	1,134
38 Officials and employes of street railroad companies.....	11,925	21	.....	16
39 Officials and employes of telegraph companies.....	22,809	179	36	75
40 Officials and employes of trading and transportation companies.....	9,702	57	5	14
41 Sailors, steamboatmen, canalmen, pilots, and watermen (b).....	100,902	698	18	268
42 Others in trade and transportation.....	77,740	772	113	151
MANUFACTURING, MECHANICAL, AND MINING.....	3,837,112	22,996	7,374	11,338
43 Apprentices to trades (d).....	44,170	157	8	25
44 Bakers.....	41,309	160	60	69
45 Blacksmiths.....	172,726	2,008	355	1,566

a In agricultural districts many enumerators have reported "agricultural laborers" simply as "laborers".

b In a census of the United States "sailors" at sea, when the enumeration is taken, are liable to be omitted, unless they are actual members of families which are enumerated.

c Including national, state, county, city, and town governments.

d In 1870 "apprentices" were, as far as possible, included in the account of their respective trades. Only those whose avocations could not be separately determined were reported under the title "apprentices (not specified)".

principal (selected) occupations, by states and territories: 1880.

Cal.	Colo.	Conn.	Dak.	Del.	D. C.	Fla.	Ga.	Idaho.	Ill.	Ind.	Iowa.	
376,505	101,251	241,833	57,844	54,580	66,624	91,536	597,862	15,578	399,780	635,080	528,302	
79,399	13,539	44,026	28,508	17,840	1,464	58,731	432,204	3,858	436,371	331,240	303,557	
23,856	2,540	15,704	5,306	8,793	410	32,259	284,060	593	150,907	118,897	88,399	1
43,489	6,511	27,006	22,740	8,840	333	25,505	145,063	2,491	281,100	210,279	211,862	2
4,396	254	1,154	59	143	423	403	632	53	3,079	1,489	1,562	3
4,967	4,068	22	383	10	18	311	52	705	520	158	1,054	4
						275	2,098					5
2,688	106	160	20	63	281	78	300	11	756	527	680	6
121,435	24,813	51,296	14,016	17,616	39,975	17,923	104,269	3,861	220,467	137,281	103,932	
380	51	159	2	11	101	14	61		638	236	226	7
1,018	396	690	134	135	386	109	455	36	3,202	1,737	1,279	8
855	415	358	136	17	149	62	232	12	1,569	514	478	9
939	234	1,055	180	209	250	420	1,747	39	4,208	2,409	2,468	10
1,223	54	292	25	25	412	29	246	1	1,071	304	314	11
413	94	243	25	34	75	08	205	8	778	452	379	12
22,858	2,575	16,135	1,877	5,276	12,144	4,375	33,139	410	56,914	29,131	22,222	13
390	273	120	85	19	56	58	37	13	299	153	198	14
6,240	2,358	1,573	857	266	1,565	387	1,496	150	7,936	3,330	4,411	15
508	152	177	66	25	192	33	175	3	937	483	516	16
57,510	12,302	10,142	6,434	9,565	9,402	8,873	47,219	2,142	104,267	69,909	44,267	17
7,013	746	965	180	290	2,822	1,138	7,936	109	3,718	2,043	1,687	18
1,899	807	796	300	127	918	306	1,432	61	4,025	2,904	2,610	19
1,922	527	1,179	187	139	257	91	454	44	2,500	1,485	1,571	20
1,497	260	612	102	59	243	44	269	23	2,240	1,624	1,033	21
1,654	165	128	2,276	12	610	79	281	463	119	69	17	22
3,789	734	1,336	359	294	7,866	521	2,072	131	7,256	3,912	3,016	23
1,851	570	952	212	217	423	374	1,995	51	5,899	4,993	3,935	24
4,788	580	3,720	401	577	864	618	3,633	106	16,104	10,407	18,661	25
419	42	363	14	50	213	58	173	4	831	220	126	26
3,364	878	1,296	194	269	1,027	266	1,007	55	4,866	1,476	1,067	27
57,392	15,491	29,920	6,219	4,967	9,848	6,446	25,222	1,327	128,372	56,492	50,872	
532	99	249	64	54	120	26	183	4	1,365	754	695	28
11,835	2,846	7,900	849	1,111	2,737	1,219	6,898	165	30,199	11,695	9,572	29
2,974	233	1,662	38	245	683	105	940	20	5,072	2,735	1,893	30
1,431	415	656	87	74	152	35	293	7	1,967	756	1,088	31
568	72	514	28	23	77	12	131	3	1,310	623	696	32
4,063	1,077	1,189	353	113	250	103	399	89	5,775	2,272	1,858	33
14,920	3,565	7,054	1,459	1,533	2,997	1,521	7,609	315	33,685	17,034	15,851	34
6,007	2,562	2,954	1,042	305	1,109	463	1,851	324	10,711	5,532	4,141	35
647	192	310	17	18	100	17	145	6	1,499	301	334	36
3,961	3,364	3,330	1,882	466	296	1,022	4,353	116	20,387	11,237	12,559	37
615	31	118	1	8	218		55		979	119	47	38
577	295	331	52	70	181	63	314	11	2,140	1,162	820	39
528	79	55	8	9	19	161	133	5	135	50	14	40
5,523	42	2,025	131	816	350	1,520	376	26	5,606	724	411	41
3,211	739	1,573	228	122	559	177	1,342	245	6,742	1,447	983	42
148,282	47,408	110,091	9,101	14,148	15,337	8,436	36,167	6,532	205,570	110,127	69,941	
1,017	53	742	4	451	422	114	367	2	2,669	1,084	760	43
1,368	330	587	75	160	383	79	276	17	2,485	1,051	694	44
4,689	1,205	2,855	586	699	554	363	2,898	222	10,991	7,518	5,152	45

TABLE CIV.—OCCUPATIONS—Number of persons engaged in the

Occupations.	Kans.	Ky.	La.	Me.
ALL OCCUPATIONS	322, 285	519, 854	363, 228	231, 993
AGRICULTURE	206, 080	320, 571	205, 306	82, 130
1 Agricultural laborers	54, 902	147, 247	145, 735	21, 868
2 Farmers and planters	147, 614	171, 625	56, 593	59, 884
3 Gardeners, nurserymen, and vine-growers	877	1, 188	1, 585	279
4 Stock raisers, drovers, and herders	2, 538	108	142	40
5 Turpentine farmers and laborers			1	
6 Others in agriculture	149	403	1, 245	59
PROFESSIONAL AND PERSONAL SERVICES	53, 507	104, 239	98, 111	47, 411
7 Artists and teachers of art	74	126	54	119
8 Barbers and hairdressers	677	784	719	482
9 Boarding- and lodging-house keepers	367	214	274	311
10 Clergymen	1, 076	1, 999	832	1, 098
11 Clerks and copyists (not specified)	100	206	204	230
12 Dentists	173	240	146	198
13 Domestic servants	9, 870	30, 704	23, 279	9, 834
14 Engineers (civil)	159	162	112	79
15 Hotel and restaurant keepers and employes	2, 542	2, 196	1, 268	1, 417
16 Journalists	245	233	146	106
17 Laborers	22, 881	40, 803	57, 522	22, 210
18 Launderers and laundresses	1, 387	4, 660	5, 262	278
19 Lawyers	1, 492	1, 981	826	725
20 Livery-stable keepers and hostlers	1, 142	1, 285	658	628
21 Musicians and teachers of music	434	469	352	447
22 Officers, soldiers, and sailors (United States army and navy)	417	87	194	276
23 Officials and employes (civil) of government	1, 993	2, 829	2, 066	1, 313
24 Physicians and surgeons	1, 964	2, 985	1, 033	969
25 Teachers	5, 291	4, 898	2, 375	5, 605
26 Watchmen (private) and detectives	39	176	285	144
27 Others in professional and personal service	584	1, 262	1, 452	744
TRADE AND TRANSPORTATION	26, 379	33, 563	29, 130	29, 790
<i>Trade.</i>				
28 Agents (not specified)	323	318	174	191
29 Clerks, salesmen, and accountants in stores	4, 995	7, 783	10, 117	4, 582
30 Commercial travelers, hucksters, and peddlers	820	1, 294	1, 206	1, 265
31 In banking and brokerage of money and stocks	559	531	446	274
32 In insurance	166	288	133	208
33 Saloon keepers and bartenders	777	1, 191	1, 188	151
34 Traders and dealers	8, 779	11, 296	7, 584	6, 621
<i>Transportation.</i>				
35 Draymen, hackmen, teamsters, etc.	2, 175	3, 282	2, 222	2, 585
36 Officials and employes of express companies	141	286	20	152
37 Officials and employes of railroad companies	6, 741	4, 180	979	1, 896
38 Officials and employes of street railroad companies	7	163	177	32
39 Officials and employes of telegraph companies	358	274	165	218
40 Officials and employes of trading and transportation companies	20	39	220	222
41 Sailors, steamboatmen, canalmen, pilots, and watermen	68	1, 062	2, 413	10, 850
42 Others in trade and transportation	450	1, 576	2, 056	543
MANUFACTURING, MECHANICAL, AND MINING	36, 319	61, 481	30, 681	72, 002
43 Apprentices to trades	264	603	666	400
44 Bakers	351	604	971	269
45 Blacksmiths	3, 106	5, 099	1, 664	2, 766

principal (selected) occupations, by states and territories: 1880—Continued.

Md.	Mass.	Mich.	Minn.	Miss.	Mo.	Mont.	Nebr.	Nev.	N. H.	N. J.	N. Mex.	
324,482	720,774	569,204	255,125	415,506	692,959	22,255	152,014	32,233	142,468	396,879	40,822	
90,927	64,973	240,319	131,535	339,938	355,297	4,513	90,507	4,180	44,490	59,214	14,139	
51,226	22,553	70,845	33,993	215,472	115,325	926	19,058	1,188	13,893	22,672	4,009	1
37,754	39,266	167,141	96,648	123,382	237,107	2,358	68,657	2,032	30,371	33,578	6,924	2
1,270	2,332	1,836	510	620	1,722	48	335	116	163	2,113	70	3
108	115	234	205	93	337	1,118	2,379	797	25	115	3,124	4
1				248								5
558	707	263	170	123	800	63	78	47	38	736	12	6
98,934	170,160	143,249	59,452	40,448	148,588	6,954	28,746	10,373	28,206	110,722	19,042	
131	874	311	81	20	250	6	64	12	61	297	3	7
1,199	2,462	1,480	506	227	1,840	50	331	207	268	1,457	40	8
243	1,382	883	379	132	1,000	37	205	169	233	465	13	9
1,173	2,397	2,148	1,132	1,304	2,558	58	744	35	646	1,654	81	10
492	1,777	625	265	126	1,200	9	197	28	189	1,378	13	11
255	717	430	157	146	408	13	93	21	139	335	8	12
35,434	52,700	28,862	15,356	15,769	35,982	529	5,213	1,608	7,538	29,777	1,758	13
110	412	273	149	46	352	41	115	44	56	288	51	14
2,807	6,880	5,310	3,025	672	5,309	377	1,495	691	1,202	3,419	277	15
190	698	358	229	99	585	21	179	34	71	437	16	16
33,077	60,220	70,053	27,636	20,222	66,323	2,931	11,812	5,223	10,651	52,707	14,979	17
5,093	3,636	1,293	480	2,821	5,025	203	347	791	268	2,479	559	18
1,087	1,984	2,037	906	820	2,907	77	840	119	382	1,557	128	19
961	3,825	1,401	721	261	2,209	125	607	181	464	1,158	42	20
638	2,463	1,112	343	131	1,118	32	233	70	254	883	139	21
365	580	380	252	11	88	1,812	769	196	44	198	372	22
2,706	6,374	3,089	1,456	1,136	4,322	202	1,009	338	724	2,875	213	23
1,531	2,845	2,924	914	1,682	4,550	77	807	134	610	1,595	80	24
3,637	10,115	9,038	4,570	3,110	8,904	120	2,806	226	3,880	4,600	154	25
257	1,109	295	98	28	504	11	33	61	150	578	1	26
2,428	6,692	1,837	792	566	3,115	214	727	182	376	2,599	115	27
49,234	115,376	54,723	24,349	12,975	79,300	2,766	15,106	4,449	11,735	66,382	3,264	
381	1,118	645	386	124	657	7	125	4	104	571	7	28
12,217	33,033	12,580	5,208	3,756	19,674	444	2,818	623	2,600	16,075	434	29
2,662	5,568	3,154	1,007	335	3,901	32	473	79	659	2,653	25	30
482	2,148	840	512	114	998	33	291	61	198	1,571	25	31
204	1,200	618	321	34	596	4	127	62	101	855	1	32
1,276	2,474	2,197	1,239	323	3,486	232	553	511	192	2,674	126	33
12,580	28,784	14,174	5,608	4,408	19,790	562	4,443	920	3,179	17,943	676	34
4,330	12,088	5,015	2,112	866	8,722	975	1,178	935	1,427	5,163	467	35
231	1,813	325	211	27	571	8	115	35	158	821	5	36
3,761	9,867	9,098	6,399	1,952	13,365	46	4,183	990	2,389	7,234	1,060	37
258	1,347	160	22	2	693		33		9	523		38
453	1,080	852	205	117	1,061	26	254	73	131	832	41	39
628	421	192	10	27	127	5	16	5	9	347	4	40
7,413	8,166	3,184	524	602	2,236	117	106	23	226	6,061	13	41
2,298	5,869	1,070	585	288	3,423	275	331	163	353	2,959	330	42
85,337	370,265	130,913	39,789	13,145	109,774	8,022	18,255	13,281	58,037	160,561	4,377	
1,778	2,275	1,066	480	100	1,474	8	179	21	217	1,880	35	43
1,418	2,441	888	262	160	1,519	40	193	82	164	2,135	55	44
3,637	6,307	6,338	2,640	1,301	6,994	296	1,564	517	1,552	4,928	277	45

TABLE CIV.—OCCUPATIONS—Number of persons engaged in the

	Occupations.	N. Y.	N. C.	Ohio.	Oreg.
	ALL OCCUPATIONS	1, 884, 645	480, 187	994, 475	67, 343
	AGRICULTURE	377, 460	360, 037	397, 495	27, 091
1	Agricultural laborers	125, 685	201, 774	131, 387	6, 598
2	Farmers and planters	241, 507	155, 985	261, 370	18, 374
3	Gardeners, nurserymen, and vine-growers	8, 013	330	3, 608	267
4	Stock raisers, drovers, and herders	351	34	60	1, 768
5	Turpentine farmers and laborers	2	2, 457	5	.....
6	Others in agriculture	1, 902	357	1, 065	84
	PROFESSIONAL AND PERSONAL SERVICES	537, 897	69, 321	250, 371	16, 645
7	Artists and teachers of art	2, 466	48	597	42
8	Barbers and hairdressers	8, 352	299	3, 230	167
9	Boarding- and lodging-house keepers	2, 838	115	1, 091	133
10	Clergymen	6, 701	1, 500	4, 393	250
11	Clerks and copyists (not specified)	6, 728	25	1, 720	78
12	Dentists	1, 809	157	895	75
13	Domestic servants	164, 192	28, 683	59, 341	1, 899
14	Engineers (civil)	1, 082	73	432	89
15	Hotel and restaurant keepers and employes	25, 385	854	7, 912	693
16	Journalists	2, 111	119	815	51
17	Laborers	199, 409	25, 985	119, 129	9, 709
18	Laundresses and laundries	16, 610	3, 542	3, 024	415
19	Lawyers	9, 459	772	4, 489	311
20	Livery-stable keepers and hostlers	6, 824	326	3, 207	216
21	Musicians and teachers of music	6, 328	128	992	127
22	Officers, soldiers, and sailors (United States army and navy)	4, 114	53	573	141
23	Officials and employes (civil) of government	16, 434	1, 790	6, 793	512
24	Physicians and surgeons	9, 272	1, 360	6, 393	425
25	Teachers	26, 693	2, 342	19, 175	1, 013
26	Watchmen (private) and detectives	2, 997	102	684	43
27	Others in professional and personal service	18, 093	548	4, 036	256
	TRADE AND TRANSPORTATION	339, 419	15, 966	104, 315	6, 149
	<i>Trade.</i>				
28	Agents (not specified)	3, 607	44	1, 562	66
29	Clerks, salesmen, and accountants in stores	97, 389	3, 938	26, 688	1, 126
30	Commercial travelers, hucksters, and peddlers	16, 748	597	6, 321	112
31	In banking and brokerage of money and stocks	7, 744	112	1, 565	107
32	In insurance	3, 949	61	1, 529	38
33	Saloon keepers and bartenders	14, 357	171	4, 354	446
34	Traders and dealers	82, 934	5, 696	25, 333	1, 705
	<i>Transportation.</i>				
35	Draymen, hackmen, teamsters, etc	33, 067	1, 279	11, 769	905
36	Officials and employes of express companies	3, 188	58	985	23
37	Officials and employes of railroad companies	26, 116	1, 922	17, 990	934
38	Officials and employes of street railroad companies	3, 424	.....	689	5
39	Officials and employes of telegraph companies	4, 291	116	669	62
40	Officials and employes of trading and transportation companies	4, 127	155	133	49
41	Sailors, steamboatmen, canalmen, pilots, and watermen	20, 197	1, 406	2, 136	388
42	Others in trade and transportation	18, 221	411	3, 192	170
	MANUFACTURING, MECHANICAL, AND MINING	629, 869	33, 963	242, 294	17, 458
43	Apprentices to trades	9, 127	275	3, 525	131
44	Bakers	10, 006	103	2, 983	106
45	Blacksmiths	20, 156	2, 483	14, 623	806

principal (selected) occupations, by states and territories: 1880—Continued.

Pa.	R. I.	S. C.	Tenn.	Tex.	Utah.	Vt.	Va.	Wash.	W. Va.	Wis.	Wyo.
1,456,007	116,979	392,102	447,970	522,133	40,055	118,584	494,240	30,122	176,199	417,455	8,884
301,112	10,945	294,602	294,153	359,317	14,550	55,251	254,099	12,781	107,578	195,001	1,639
100,381 193,370 3,623 607 3	3,913 6,342 548 13	198,147 93,559 823 33 2,357	138,185 154,192 1,528 51	143,812 200,404 783 14,031	4,137 9,130 2 1,228	19,215 35,751 221 15	132,820 119,623 1,152 133 2	3,034 9,038 120 503	41,767 63,497 139 40	56,170 133,443 990 84	443 911 7 275 5
1,123	129	192	197	287	53	49	369	97	75	214	3
445,713	24,657	64,246	94,107	97,561	11,144	28,174	146,664	6,640	31,680	97,494	4,011
914 5,063 1,636 1,388	55 374 295 335	25 269 197 1,165	64 517 292 1,858	60 726 420 2,161	13 72 24 48	44 202 77 671	48 572 201 1,753	7 43 52 128	33 226 86 805	154 861 454 1,715	1 20 15 18
2,981 1,425 111,287 990 14,525	227 85 7,136 104 1,004	169 116 18,463 58 739	204 218 26,686 135 1,373	271 246 19,084 329 2,237	40 26 1,701 56 285	228 132 9,169 89 1,076	261 215 49,024 173 1,764	36 18 819 44 342	109 92 8,169 88 729	447 264 25,574 215 3,379	1 4 503 32 103
1,005 236,643 5,470 4,992 4,177	78 9,259 646 237 576	51 32,486 4,738 614 263	156 45,970 5,043 1,596 553	247 48,263 4,775 2,109 718	24 6,912 192 119 50	40 11,085 122 424 344	154 73,253 6,114 1,355 581	20 2,809 185 113 113	66 15,693 387 629 132	290 47,328 650 1,193 1,009	2 1,549 52 34 18
3,222 535 9,863 7,042 18,721	317 266 813 396 1,353	106 7 1,077 919 2,170	319 8 2,034 2,688 3,548	555 4,060 3,062 3,003 4,334	61 417 265 139 444	197 6 565 659 2,777	248 640 2,558 1,305 4,571	42 908 307 187 401	102 30 893 2,939 2,159	836 32 2,655 1,849 8,086	2 1,287 198 30 61
1,881 8,929	230 921	159 550	152 703	96 805	4 252	56 252	205 1,091	11 85	44 284	240 1,158	12 69
179,965	15,217	13,556	23,628	34,909	4,149	8,945	30,418	3,405	10,653	37,550	1,545
2,210 44,204 8,041	151 4,276 852	88 3,917 490	152 5,721 870	190 7,458 1,060	27 895 88	45 1,635 542	170 6,956 977	20 331 16	97 2,097 270	516 7,785 1,639	3 183 4
2,804 1,756 6,159 48,131	282 182 445 4,067	134 55 200 3,794	250 99 639 7,808	406 133 1,259 10,964	52 3 152 830	152 116 75 2,553	351 183 440 9,268	39 8 193 567	117 43 203 3,111	509 500 2,321 9,845	7 2 73 185
18,859	2,063	1,309	2,032	3,370	707	1,129	2,288	340	826	3,087	360
786 27,290 1,630 3,227 906	269 858 173 127 62	60 2,035 34 114 227	200 3,856 71 219 24	180 7,335 72 316 166	23 897 3 101 9	57 2,073 3 137 4	90 5,032 25 248 154	7 1,067 14 29 44	35 3,027 70 155 12	272 7,039 70 590 66	1 693 1 53 39
6,210 7,686	678 730	691 408	625 1,062	673 1,377	10 352	92 335	3,197 1,039	640 104	458 178	1,930 1,370	3 27
523,277	66,160	19,698	30,082	30,346	10,212	26,214	63,059	7,296	26,288	86,510	1,689
8,907 6,025 20,276	419 349 1,134	440 280 1,404	244 215 4,078	222 596 2,814	138 57 582	112 104 1,465	492 405 4,670	5 37 294	86 145 2,013	768 584 5,004	..... 22 117
											43 44 45

TABLE CIV.—OCCUPATIONS—Number of persons engaged in the

	Occupations.	United States.	Ala.	Ariz.	Ark.
MANUFACTURING, MECHANICAL, AND MINING—continued.					
46	Bleachers, dyers, and scourers	8,222	18	-----	5
47	Bookbinders and finishers	13,833	16	-----	6
48	Boot and shoe makers	194,079	721	74	204
49	Brass founders and workers	11,568	4	1	-----
50	Brewers and maltsters	16,278	6	47	-----
51	Brick and stone masons, marble and stone cutters	135,315	686	147	413
52	Brick and tile makers (a)	36,052	252	4	168
53	Broom and brush makers	8,479	7	-----	10
54	Butchers	76,241	225	127	231
55	Cabinet makers and upholsterers	61,097	194	18	139
56	Carpenters and joiners	373,143	3,043	504	2,317
57	Carriage, car, and wagon makers	54,589	200	27	204
58	Cigar makers and tobacco workers	77,045	101	14	50
59	Clerks and bookkeepers in manufacturing establishments	10,114	44	11	5
60	Clock and watch makers and repairers	13,820	48	8	32
61	Confectioners	12,692	65	6	26
62	Coopers	49,138	147	11	56
63	Cotton, silk, and woolen mill operatives (b)	310,533	2,706	1	32
64	Curriers, tanners, dressers, and finishers of leather	29,832	144	-----	19
65	Engineers and firemen	79,628	483	209	379
66	Fishermen and oystermen	41,352	296	-----	104
67	Glass-works operatives	17,934	-----	1	2
68	Gold and silver workers and jewelers	23,405	96	23	21
69	Gun- and lock-smiths	10,572	73	11	50
70	Harness, saddle, and trunk makers	42,973	138	43	154
71	Hat and cap makers	16,860	2	1	-----
72	Iron and steel works and shops operatives (c)	114,539	352	101	25
73	Lumbermen, raftsmen, and woodchoppers	43,382	1,043	101	350
74	Machinists	101,130	521	119	302
75	Manufacturers and officials in manufacturing companies	52,217	118	29	52
76	Millers	53,440	1,082	41	500
77	Miners	234,223	1,004	4,078	17
78	Painters and varnishers	128,556	466	78	315
79	Paper-mill operatives	21,430	1	-----	-----
80	Photographers	9,930	84	11	87
81	Piano and organ makers and tuners	7,850	6	-----	1
82	Plasterers	22,053	141	15	60
83	Plumbers and gasfitters	19,383	32	6	15
84	Potters	7,232	47	-----	33
85	Printers	72,726	327	84	328
86	Quarrymen	15,169	106	-----	48
87	Rubber factory operatives	6,359	-----	-----	-----
88	Saw-mill operatives	77,050	1,065	54	738
89	Ship carpenters, calkers, riggers, and smiths	17,452	63	1	8
90	Shirt, collar, and cuff makers	11,823	3	-----	2
91	Steam-boiler makers	12,771	36	4	13
92	Tailors, tailoresses, milliners, and dressmakers	439,157	2,168	125	731
93	Tinners	42,818	176	41	115
94	Tool and cutlery makers	13,749	1	3	-----
95	Wheelwrights	15,592	150	30	46
96	Wire makers and workers	7,170	3	-----	1
97	Wood turners, carvers, and workers	12,964	45	3	32
98	Employés of manufacturing companies (not specified)	34,536	51	-----	21
99	Mill and factory operatives (not specified)	30,836	482	35	309
100	Others in manufacturing and mining	242,479	1,202	88	700

a The unskilled workmen employed in brick-yards are generally reported as common "laborers".

b In addition to those, the "mill and factory operatives (not specified)" are almost without exception workers in "textile" establishments, while many "hat and cap makers" and "glove makers" might be included in this class, could the numbers engaged in making "woolen" hats, caps, or gloves be separately ascertained. There are also the "watchmen" and "laborers" reported under their respective titles, and the large number of women and children working in the factories who have not so reported themselves to the enumerators, and are consequently not included in the tables.

c Largely reported as "operatives" or laborers without distinction of trade.

principal (selected) occupations, by states and territories: 1880—Continued.

Cal.	Colo.	Conn.	Dak.	Del.	D. C.	Fla.	Ga.	Idaho.	Ill.	Ind.	Iowa.	
121	11	461	-----	21	50	3	27	-----	179	74	51	46
225	20	172	7	10	212	1	35	1	839	159	163	47
4,577	470	2,593	166	386	612	162	1,169	59	6,598	4,045	2,489	48
170	6	4,146	-----	4	56	-----	-----	-----	395	67	18	49
749	154	120	42	17	63	1	25	82	1,170	463	492	50
1,565	1,166	3,110	286	412	946	201	1,253	68	7,535	3,953	3,633	51
799	638	489	110	248	352	42	434	8	2,805	2,563	1,154	52
135	14	65	3	14	13	1	11	2	593	321	180	53
3,301	665	1,280	178	284	552	149	505	101	6,132	2,263	2,062	54
1,378	163	740	39	198	281	59	379	16	4,841	3,743	992	55
9,056	3,773	6,574	1,599	1,098	1,729	1,404	4,991	405	22,972	15,594	11,131	56
844	168	1,508	106	453	100	84	363	23	4,425	3,695	1,883	57
3,217	81	739	28	118	157	1	102	3	3,494	1,137	840	58
281	20	253	10	107	33	17	132	2	540	174	163	59
1,138	68	2,868	26	22	46	25	74	9	1,912	151	120	60
277	50	150	17	69	171	16	146	4	915	343	223	61
553	35	177	23	109	69	69	293	11	3,989	3,173	971	62
776	16	24,435	6	1,383	10	34	4,512	7	1,602	2,263	611	63
712	20	218	2	563	6	5	128	3	1,165	324	34	64
2,874	1,078	1,277	201	241	412	222	689	69	5,694	2,869	1,533	65
3,010	5	1,260	4	180	80	309	170	6	428	162	108	66
92	7	748	3	-----	1	-----	2	-----	616	551	11	67
550	159	1,086	79	37	69	32	174	9	1,286	618	527	68
222	45	2,525	12	8	43	19	70	3	434	240	147	69
1,138	304	676	133	82	110	34	494	25	3,311	2,691	1,928	70
69	2	3,459	2	9	2	6	6	-----	76	23	8	71
1,099	177	5,297	18	581	125	11	923	8	6,283	2,879	538	72
4,433	558	248	144	31	16	655	1,080	224	767	343	365	73
1,824	615	4,263	152	569	293	171	701	47	5,797	2,701	1,139	74
1,203	255	1,945	35	206	88	55	273	20	2,637	1,274	615	75
547	250	525	142	259	67	141	1,500	35	3,353	2,969	1,943	76
37,147	28,970	358	3,570	37	12	29	461	4,708	13,098	3,634	3,451	77
3,323	708	3,288	217	624	889	207	921	45	10,626	4,757	3,160	78
160	40	1,394	-----	140	15	-----	163	-----	561	339	95	79
362	119	1,205	26	21	81	21	86	7	778	433	444	80
67	11	452	-----	2	11	2	14	-----	207	128	30	81
586	283	91	76	98	437	33	195	9	2,947	1,709	1,097	82
841	130	475	6	56	307	8	82	3	1,666	231	159	83
58	6	106	5	7	11	1	31	2	369	160	183	84
2,232	644	996	194	156	1,199	148	704	35	5,174	1,971	1,988	85
90	71	1,148	2	85	10	-----	57	-----	884	434	326	86
3	1	1,676	-----	-----	-----	-----	-----	-----	3	3	3	87
1,281	407	289	74	155	36	828	2,221	100	2,498	4,004	2,481	88
719	3	394	8	349	80	101	45	4	318	258	38	89
437	8	685	-----	8	4	-----	1	-----	299	88	59	90
411	73	197	10	126	36	5	36	2	837	381	193	91
9,516	1,168	6,644	378	1,237	2,827	505	3,958	79	30,207	11,420	9,133	92
1,141	246	1,060	86	230	274	56	271	22	2,985	1,300	1,018	93
111	11	3,304	-----	11	8	7	6	-----	291	89	72	94
317	21	421	12	232	84	73	315	11	248	749	82	95
53	1	450	1	1	3	1	-----	-----	304	7	112	96
250	23	445	9	36	23	12	35	1	813	364	45	97
627	49	3,025	1	234	39	6	107	2	1,593	441	252	98
675	76	994	12	131	7	226	975	1	1,746	768	264	99
4,780	1,653	10,339	177	563	761	440	1,271	60	10,490	5,684	2,633	100

TABLE CIV.—OCCUPATIONS—Number of persons engaged in the

	Occupations.	Kans.	Ky.	La.	Me.
MANUFACTURING, MECHANICAL, AND MINING—continued.					
46	Bleachers, dyers, and scourers	10	36	30	256
47	Bookbinders and finishers	74	176	61	58
48	Boot and shoe makers	1,035	2,354	1,476	5,048
49	Brass founders and workers	3	160	37	85
50	Brewers and maltsters	90	256	48	14
51	Brick and stone masons, marble and stone cutters	2,999	2,533	1,056	3,399
52	Brick and tile makers	502	795	152	387
53	Broom and brush makers	119	119	61	163
54	Butchers	1,085	947	1,148	643
55	Cabinet makers and upholsterers	400	1,199	386	424
56	Carpenters and joiners	7,119	6,730	4,773	6,678
57	Carriage, car, and wagon makers	837	1,331	118	775
58	Cigar makers and tobacco workers	320	2,717	1,082	171
59	Clerks and bookkeepers in manufacturing establishments	40	111	42	93
60	Clock and watch makers and repairers	58	128	106	146
61	Confectioners	139	208	163	163
62	Coopers	225	1,464	1,720	987
63	Cotton, silk, and woolen mill operatives	182	738	122	14,593
64	Curriers, tanners, dressers, and finishers of leather	7	357	47	812
65	Engineers and firemen	701	1,293	1,150	726
66	Fishermen and oystermen	65	175	726	4,244
67	Glass-works operatives	2	300	1	11
68	Gold and silver workers and jewelers	222	475	172	258
69	Gun- and lock-smiths	75	170	129	36
70	Harness, saddle, and trunk makers	871	1,141	325	674
71	Hat and cap makers	4	21	17	88
72	Iron and steel works and shops operatives	618	2,183	290	757
73	Lumbermen, raftsmen, and woodchoppers	110	238	708	1,397
74	Machinists	673	972	468	1,467
75	Manufacturers and officials in manufacturing companies	168	557	167	718
76	Millers	1,119	1,533	128	458
77	Miners	3,306	2,580	12	543
78	Painters and varnishers	1,545	2,237	1,054	1,950
79	Paper-mill operatives	12	186	.....	700
80	Photographers	245	157	93	138
81	Piano and organ makers and tuners	9	29	26	44
82	Plasterers	864	627	231	72
83	Plumbers and gasfitters	48	215	114	113
84	Potters	45	79	9	45
85	Printers	1,069	1,268	701	737
86	Quarrymen	137	129	.....	615
87	Rubber factory operatives .....	.....	.....	.....	5
88	Saw-mill operatives	267	1,574	503	3,463
89	Ship carpenters, calkers, riggers, and smiths	3	120	310	1,971
90	Shirt, collar, and cuff makers	22	75	14	41
91	Steam-boiler makers	79	145	168	79
92	Tailors, tailoresses, milliners, and dressmakers	3,250	3,205	4,663	7,207
93	Tinners	538	780	404	507
94	Tool and cutlery makers	6	73	3	250
95	Wheelwrights	59	126	188	247
96	Wire makers and workers	10	98	.....	48
97	Wood turners, carvers, and workers	21	262	40	337
98	Employes of manufacturing companies (not specified)	53	588	141	586
99	Mill and factory operatives (not specified)	86	957	153	648
100	Others in manufacturing and mining	1,051	3,258	1,626	3,332

principal (selected) occupations, by states and territories: 1880—Continued.

Md.	Mass.	Mich.	Minn.	Miss.	Mo.	Mont.	Nebr.	Nev.	N. H.	N. J.	N. Mex.	
114	1,442	70	21	7	104	-----	15	6	127	659	1	46
193	1,312	218	117	10	426	3	60	3	73	517	1	47
4,639	58,960	3,764	1,467	408	3,845	66	591	143	6,371	6,832	131	48
220	1,079	88	12	1	123	3	7	-----	35	607	1	49
315	411	518	458	-----	1,208	48	131	77	82	534	10	50
2,663	9,700	4,412	2,224	372	5,074	138	1,129	178	1,620	4,720	175	51
1,197	2,330	774	403	179	1,475	15	363	28	580	1,470	20	52
285	681	323	65	5	429	-----	26	3	22	314	-----	53
2,097	2,500	2,390	971	297	2,854	174	599	313	420	3,587	79	54
1,402	6,100	2,920	452	105	2,199	27	189	51	727	1,510	14	55
7,634	20,632	16,541	6,676	2,352	12,594	546	4,125	753	3,968	12,354	617	56
715	2,532	2,479	759	166	2,556	36	387	38	501	1,013	18	57
2,148	1,677	1,907	399	8	2,869	2	180	30	92	2,187	31	58
177	808	251	91	31	443	7	25	16	113	615	2	59
206	2,112	223	92	54	330	14	46	26	76	517	8	60
636	737	322	120	55	717	4	55	19	44	698	3	61
1,244	1,407	2,753	1,106	55	2,307	15	113	14	424	918	1	62
3,676	90,044	1,053	301	857	1,062	1	52	8	21,406	18,940	21	63
441	7,356	428	50	22	302	2	9	7	599	1,459	4	64
1,624	4,272	3,783	1,146	372	3,303	139	380	491	432	3,702	106	65
8,560	6,103	1,398	74	190	187	5	41	12	226	2,529	3	66
370	792	33	14	-----	493	1	4	-----	25	2,751	1	67
370	3,928	640	223	83	619	26	150	33	164	2,880	48	68
199	230	186	77	52	325	9	53	18	96	323	7	69
857	1,711	1,547	760	124	2,404	54	519	70	428	2,490	35	70
108	1,040	32	38	2	46	-----	2	2	30	4,198	-----	71
1,500	6,846	2,868	394	64	3,397	137	183	116	801	4,842	35	72
212	242	8,907	2,155	258	1,118	390	103	416	632	174	185	73
1,969	12,455	2,870	1,329	306	2,552	86	425	291	1,676	5,397	46	74
807	6,144	1,904	454	65	1,329	22	211	112	849	2,658	11	75
1,201	720	1,924	1,871	624	2,556	33	514	42	273	1,076	76	76
3,619	459	6,978	27	2	4,532	4,813	79	6,647	98	3,606	1,498	77
2,685	10,133	4,896	1,525	319	4,223	93	936	146	1,519	5,058	72	78
268	6,828	456	64	1	43	-----	5	1	826	747	-----	79
151	643	452	124	56	438	12	97	22	115	265	16	80
215	1,792	66	11	2	59	-----	5	-----	38	472	1	81
815	657	491	276	59	1,387	44	404	20	26	470	88	82
589	1,884	334	37	10	706	2	56	28	103	977	4	83
231	194	59	37	19	212	1	10	1	30	2,461	-----	84
1,328	5,997	1,919	863	275	3,134	79	680	151	513	2,460	87	85
234	819	96	92	1	466	1	68	-----	176	441	11	86
-----	1,060	-----	-----	-----	1	-----	-----	-----	2	1,219	-----	87
532	924	13,826	1,943	891	2,435	111	185	17	1,156	394	85	88
896	1,618	950	27	58	222	3	4	4	78	889	-----	89
362	320	31	28	-----	296	1	12	-----	26	1,284	-----	90
376	667	465	68	25	434	5	65	41	62	694	8	91
13,369	26,462	12,432	4,733	1,308	11,725	111	1,999	434	4,446	14,843	359	92
2,271	2,105	1,233	534	141	1,758	27	316	70	270	1,748	36	93
93	2,277	1,222	12	84	94	1	11	3	274	739	-----	94
922	1,071	128	47	73	118	13	38	20	276	1,237	8	95
39	2,008	121	3	-----	455	-----	4	2	2	989	-----	96
265	1,614	655	32	22	357	2	9	10	306	523	3	97
433	5,815	599	119	35	685	3	20	10	454	2,805	4	98
363	3,545	972	120	149	1,257	3	28	104	366	1,105	4	99
5,368	24,167	7,704	1,362	830	5,450	340	626	1,564	1,960	13,677	93	100

TABLE CIV.—OCCUPATIONS—Number of persons engaged in the

	Occupations.	N. Y.	N. C.	Ohio.	Oreg.
MANUFACTURING, MECHANICAL, AND MINING—continued.					
46	Bleachers, dyers, and scourers	1,260	15	236	8
47	Bookbinders and finishers.....	5,279	28	801	18
48	Boot and shoe makers.....	23,261	1,286	10,964	300
49	Brass foundries and workers.....	2,614	.....	452	1
50	Brewers and maltsters.....	3,799	2	1,744	145
51	Brick and stone masons, marble and stone cutters.....	23,893	1,042	10,713	312
52	Brick and tile makers.....	4,032	369	3,355	124
53	Broom and brush makers.....	2,209	5	779	7
54	Butchers.....	16,730	316	5,713	378
55	Cabinet makers and upholsterers.....	11,924	441	5,615	179
56	Carpenters and joiners.....	49,754	4,641	29,770	1,899
57	Carriage, car, and wagon makers.....	7,154	574	7,029	154
58	Cigar makers and tobacco workers.....	20,578	2,088	5,297	42
59	Clerks and bookkeepers in manufacturing establishments.....	1,977	49	635	17
60	Clock and watch makers and repairers.....	1,783	45	201	48
61	Confectioners.....	2,924	48	647	26
62	Coopers.....	8,576	998	5,357	79
63	Cotton, silk, and woolen mill operatives.....	29,039	3,229	1,818	44
64	Curriers, tanners, dressers, and finishers of leather.....	5,193	216	683	34
65	Engineers and firemen.....	12,667	418	5,860	229
66	Fishermen and oystermen.....	3,788	1,382	357	3,192
67	Glass-works operatives.....	3,132	1	906	2
68	Gold and silver workers and jewelers.....	5,594	35	1,200	47
69	Gun- and lock-smiths.....	1,926	55	526	36
70	Harness, saddle, and trunk makers.....	5,329	300	3,061	439
71	Hat and cap makers.....	5,147	3	112	3
72	Iron and steel works and shops operatives.....	16,261	204	13,419	97
73	Lumbermen, raftsmen, and woodchoppers.....	1,718	512	693	642
74	Machinists.....	16,234	621	7,498	221
75	Manufacturers and officials in manufacturing companies.....	11,602	316	3,811	128
76	Millers.....	4,298	1,869	3,919	263
77	Miners.....	2,633	827	8,575	3,699
78	Painters and varnishers.....	25,566	592	11,458	386
79	Paper-mill operatives.....	4,437	81	546	15
80	Photographers.....	1,669	73	238	58
81	Piano and organ makers and tuners.....	3,188	7	161	6
82	Plasterers.....	2,221	96	795	82
83	Plumbers and gasfitters.....	6,188	15	758	52
84	Potters.....	764	44	584	17
85	Printers.....	10,928	379	4,658	301
86	Quarrymen.....	1,861	40	428	5
87	Rubber factory operatives.....	1,100	.....	134	.....
88	Saw-mill operatives.....	4,710	1,374	4,148	865
89	Ship carpenters, calkers, riggers, and smiths.....	4,444	84	405	121
90	Shirt, collar, and cuff makers.....	6,328	3	79	2
91	Steam-boiler makers.....	2,322	16	781	19
92	Tailors, tailoresses, milliners, and dressmakers.....	104,379	2,707	33,212	750
93	Tinners.....	8,438	186	3,331	181
94	Tool and cutlery makers.....	2,421	.....	387	2
95	Wheelwrights.....	1,773	293	1,028	13
96	Wire makers and workers.....	863	1	951	4
97	Wood turners, carvers, and workers.....	3,231	59	729	19
98	Employés of manufacturing companies (not specified).....	8,037	39	1,982	15
99	Mill and factory operatives (not specified).....	3,483	1,029	527	68
100	Others in manufacturing and mining.....	60,961	2,158	14,520	551

principal (selected) occupations, by states and territories: 1880—Continued.

Pa.	R. I.	S. C.	Tenn.	Tex.	Utah.	Vt.	Va.	Wash.	W. Va.	Wis.	Wyo.
1,915	695	9	21	15	7	15	31	1	17	64	46
2,055	65	29	64	35	13	24	64	4	7	169	47
20,634	568	647	1,483	1,026	561	749	2,850	104	1,097	4,082	48
1,088	90	-----	9	10	3	6	5	1	7	58	49
1,504	47	8	23	35	49	7	18	40	45	1,221	50
16,210	1,787	735	1,766	1,068	553	1,901	2,143	88	1,059	3,554	51
4,504	19	155	477	486	146	125	559	44	339	690	52
1,110	64	5	49	29	14	19	32	3	32	142	53
9,200	443	283	459	1,096	194	280	656	122	314	1,732	54
6,866	358	177	768	312	115	537	794	69	358	1,288	55
40,782	3,535	3,177	5,207	5,693	1,253	3,053	8,273	852	3,295	10,777	56
6,026	178	230	813	468	42	345	801	19	331	2,141	57
8,970	214	40	220	127	13	56	10,121	8	310	1,759	58
1,668	214	57	164	108	16	53	228	7	63	229	59
1,183	99	44	59	104	34	49	100	11	32	162	60
2,347	158	43	175	141	13	20	232	-----	70	177	61
3,852	74	618	525	103	38	453	1,155	86	875	1,908	62
44,746	30,531	2,304	1,518	99	323	2,628	1,441	10	209	1,192	63
6,020	123	58	292	59	36	186	354	18	252	1,183	64
11,452	789	352	761	846	290	377	765	169	756	1,817	65
598	879	479	199	140	14	16	3,625	613	8	402	66
6,226	46	1	5	7	3	9	3	3	725	12	67
2,204	2,944	60	180	235	17	140	202	17	102	395	68
839	67	41	85	153	18	20	102	11	59	142	69
3,729	244	119	584	792	124	346	703	76	326	1,487	70
2,127	15	5	4	12	-----	4	11	-----	3	121	71
32,628	1,128	74	1,117	153	41	319	1,254	28	1,517	1,796	72
4,085	41	423	314	944	175	394	552	998	212	3,819	73
14,601	3,101	413	842	709	132	656	1,144	111	537	1,968	74
6,740	1,170	174	315	325	83	667	470	79	283	1,059	75
5,302	66	690	1,746	1,096	177	376	2,519	97	973	1,943	76
62,415	47	114	1,108	64	2,592	596	1,260	985	3,701	1,113	77
13,008	1,611	478	965	986	220	969	1,114	121	514	3,096	78
2,176	74	7	39	2	6	385	69	1	53	414	79
1,029	106	50	106	199	34	90	117	24	52	350	80
282	14	5	13	21	1	405	2	1	3	41	81
3,733	79	67	342	160	125	16	593	14	226	295	82
2,621	372	39	113	56	16	30	138	10	49	197	83
973	7	11	47	56	17	27	82	1	69	57	84
7,877	497	309	607	940	125	208	831	111	138	1,612	85
4,341	172	27	226	53	42	1,061	189	-----	77	150	86
39	1,104	-----	-----	-----	-----	-----	-----	-----	-----	-----	87
4,619	59	202	1,557	2,182	181	1,359	2,227	689	778	7,745	88
1,624	102	98	27	79	2	7	409	138	37	327	89
1,184	18	3	17	9	6	41	16	-----	5	16	90
2,921	183	45	66	59	22	19	118	12	188	286	91
49,851	3,871	2,544	2,973	2,493	819	2,240	4,917	190	1,551	10,953	92
5,264	322	210	407	508	77	331	506	57	254	959	93
2,392	331	-----	8	15	1	63	8	-----	7	56	94
2,381	148	181	165	282	28	351	1,092	16	57	395	95
554	28	-----	4	3	-----	-----	-----	1	3	41	96
1,510	133	24	70	27	27	353	40	7	23	187	97
3,995	614	24	139	103	13	75	130	9	65	480	98
6,701	449	161	371	143	57	75	563	20	186	428	99
31,768	4,165	1,511	1,811	1,346	526	1,922	1,949	864	1,585	3,576	100

TABLE CV.—OCCUPATIONS—*Fifty cities*: 1880.

PERSONS ENGAGED IN ALL CLASSES OF

Cities.	Persons occupied.	AGE AND SEX.					
		All ages.		10 to 15.		16 to 59.	
		Male.	Female.	Male.	Female.	Male.	Female.
Total	3, 033, 172	2, 369, 761	713, 411	64, 331	40, 755	2, 222, 059	659, 044
1 Albany, N. Y.	32, 143	25, 564	6, 580	561	290	23, 692	6, 193
2 Allegheny, Pa.	20, 456	21, 254	4, 704	632	300	19, 924	4, 348
3 Atlanta, Ga.	17, 078	11, 118	5, 960	511	361	10, 224	5, 444
4 Baltimore, Md.	130, 364	97, 561	32, 803	2, 276	1, 514	91, 183	30, 196
5 Boston, Mass.	149, 194	110, 313	38, 881	1, 429	808	104, 421	37, 410
6 Brooklyn, N. Y.	209, 065	163, 934	45, 131	4, 380	2, 518	156, 442	42, 272
7 Buffalo, N. Y.	54, 647	44, 820	10, 027	1, 123	608	41, 678	9, 291
8 Cambridge, Mass.	20, 021	15, 137	4, 884	295	124	13, 965	4, 667
9 Camden, N. J.	15, 085	12, 249	2, 836	300	147	11, 555	2, 636
10 Charleston, S. C.	20, 325	13, 280	7, 045	228	152	12, 354	6, 492
11 Chicago, Ill.	191, 760	156, 158	35, 602	3, 358	2, 315	149, 624	33, 056
12 Cincinnati, Ohio.	100, 454	78, 170	22, 284	3, 240	1, 883	71, 993	20, 070
13 Cleveland, Ohio.	50, 919	46, 769	10, 150	1, 049	561	44, 275	9, 493
14 Columbus, Ohio.	18, 737	15, 335	3, 399	243	116	14, 393	3, 225
15 Dayton, Ohio.	14, 184	11, 716	2, 468	359	164	10, 844	2, 293
16 Denver, Colo.	15, 737	14, 056	1, 681	164	47	13, 765	1, 619
17 Detroit, Mich.	39, 245	31, 220	8, 025	661	492	29, 435	7, 478
18 Fall River, Mass.	22, 685	14, 919	7, 766	1, 072	937	13, 257	6, 780
19 Hartford, Conn.	17, 212	12, 786	4, 426	245	179	11, 922	4, 161
20 Indianapolis, Ind.	27, 966	22, 927	5, 039	553	183	21, 643	4, 811
21 Jersey City, N. J.	42, 356	35, 617	6, 739	840	545	33, 741	6, 098
22 Kansas City, Mo.	25, 081	21, 436	3, 645	443	241	20, 696	3, 378
23 Lawrence, Mass.	19, 153	11, 552	7, 601	580	627	10, 564	9, 097
24 Louisville, Ky.	45, 244	34, 987	10, 257	800	411	33, 046	9, 614
25 Lowell, Mass.	29, 781	17, 795	11, 986	642	718	16, 322	11, 151
26 Lynn, Mass.	16, 728	12, 171	4, 557	209	110	11, 349	4, 385
27 Milwaukee, Wis.	40, 900	32, 924	7, 976	822	607	30, 890	7, 283
28 Minneapolis, Minn.	21, 362	17, 579	3, 783	258	140	16, 929	3, 562
29 Nashville, Tenn.	16, 738	11, 591	5, 147	337	270	10, 753	4, 751
30 Newark, N. J.	49, 066	38, 262	10, 804	1, 276	932	35, 171	9, 655
31 New Haven, Conn.	24, 155	18, 634	5, 521	346	232	17, 420	5, 131
32 New Orleans, La.	78, 326	59, 173	19, 163	1, 942	902	54, 039	16, 964
33 New York, N. Y.	513, 377	378, 159	135, 218	10, 994	7, 471	358, 156	125, 403
34 Paterson, N. J.	22, 570	16, 859	5, 711	1, 131	1, 189	15, 075	4, 455
35 Philadelphia, Pa.	348, 900	257, 694	91, 206	9, 415	5, 825	236, 636	83, 160
36 Pittsburgh, Pa.	52, 173	44, 794	7, 379	1, 308	405	42, 086	6, 879
37 Providence, R. I.	43, 878	32, 521	11, 357	1, 102	797	29, 948	10, 349
38 Reading, Pa.	15, 623	12, 877	2, 746	633	273	11, 473	2, 490
39 Richmond, Va.	24, 550	17, 007	7, 543	237	291	15, 933	6, 939
40 Rochester, N. Y.	34, 276	25, 243	9, 033	808	676	22, 996	8, 255
41 Saint Louis, Mo.	180, 985	113, 917	26, 068	3, 059	1, 660	107, 888	23, 972
42 Saint Paul, Minn.	17, 809	14, 728	3, 081	148	106	14, 327	2, 953
43 San Francisco, Cal.	104, 650	90, 508	14, 142	830	509	87, 960	13, 376
44 Scranton, Pa.	16, 829	14, 450	2, 379	1, 234	212	12, 790	2, 146
45 Syracuse, N. Y.	20, 409	15, 495	4, 914	570	375	14, 014	4, 477
46 Toledo, Ohio.	17, 691	14, 675	3, 016	265	158	13, 064	2, 821
47 Troy, N. Y.	23, 745	16, 881	6, 864	577	437	15, 609	6, 313
48 Washington, D. C.	57, 262	39, 763	17, 599	493	552	37, 879	16, 611
49 Wilmington, Del.	19, 281	15, 699	3, 582	496	262	14, 296	3, 217
50 Worcester, Mass.	22, 535	17, 741	4, 794	240	153	16, 711	4, 581

TABLE CV.—OCCUPATIONS—*Fifty cities*: 1880.

OCCUPATIONS, WITH AGE, SEX, AND NATIVITY.

AGE AND SEX—continued.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
83,371	13,612	1,826,210	461,855	415,710	140,736	30,955	67,510	140,196	
1,291	106	20,330	6,261	3,289	1,205	65	576	427	1
698	56	16,941	2,468	4,482	1,130	71	86	730	2
383	155	16,339	237	280	108	16	20	72	3
4,103	1,023	101,484	7,306	17,769	1,442	169	253	1,936	4
4,463	663	88,244	34,745	3,990	6,650	1,121	11,237	3,207	5
3,112	341	115,111	41,487	30,177	12,311	2,293	2,162	5,524	6
1,819	123	29,928	5,149	12,279	2,861	187	2,688	1,555	7
877	93	11,706	4,415	372	965	135	2,092	336	8
394	53	12,994	730	631	582	12	41	95	9
698	421	18,379	758	796	138	14	12	228	10
3,176	221	84,767	23,918	40,847	10,018	12,566	6,322	13,382	11
2,937	331	62,826	7,843	24,117	2,861	67	585	2,910	12
1,445	96	26,730	6,570	12,506	4,911	182	2,017	4,003	13
597	53	14,164	1,237	2,164	696	25	121	330	14
513	38	10,524	656	3,399	239	-----	81	265	15
187	15	10,490	1,226	1,242	1,081	354	548	706	16
1,124	55	17,938	2,963	8,545	2,776	61	4,922	2,040	17
599	49	8,495	4,686	144	5,075	41	4,118	126	18
619	86	11,183	3,867	847	767	67	270	191	19
731	45	21,584	1,866	3,087	647	47	183	532	20
1,056	96	22,091	10,451	5,519	2,819	157	329	990	21
297	26	19,461	2,208	1,375	768	362	512	395	22
493	67	8,729	4,799	637	2,805	14	2,044	125	23
1,141	232	34,012	3,099	6,412	578	21	205	917	24
821	137	15,621	6,612	65	2,009	69	5,234	171	25
613	62	13,029	1,969	29	354	26	1,232	89	26
1,392	86	18,041	1,811	15,984	1,224	670	467	2,703	27
392	21	12,009	1,057	1,566	570	3,708	1,856	538	28
591	126	15,232	643	356	206	35	18	243	29
1,815	217	29,228	6,461	9,104	2,541	67	156	1,500	30
263	108	15,776	5,242	1,478	923	64	300	362	31
3,752	1,297	58,771	5,543	6,968	1,218	137	210	5,489	32
11,009	2,344	240,076	114,681	92,657	21,230	2,567	3,752	38,514	33
653	67	12,459	3,386	1,334	3,261	51	168	1,971	34
11,593	2,231	237,639	55,783	30,429	17,137	567	1,037	6,308	35
1,400	95	30,454	8,680	7,884	3,499	70	232	1,354	36
1,471	211	28,720	9,134	668	3,496	143	1,146	631	37
771	43	13,802	314	1,199	178	8	11	111	38
837	313	23,013	454	620	220	9	31	203	39
1,439	152	20,904	3,079	5,256	1,761	39	2,040	1,097	40
2,970	436	82,735	15,965	29,674	4,061	420	1,230	5,880	41
253	22	8,929	1,812	2,873	560	1,758	858	1,019	42
2,168	257	37,460	17,012	12,394	6,076	1,868	1,946	27,885	43
426	21	8,727	3,462	1,541	2,720	42	66	271	44
911	62	13,612	2,308	2,544	784	6	622	533	45
446	37	10,478	1,490	3,523	546	37	716	901	46
695	114	14,310	5,993	892	1,265	69	945	280	47
1,829	446	50,309	3,146	2,109	865	42	141	659	48
967	113	15,880	2,184	438	564	34	86	145	49
790	60	14,537	4,729	188	730	473	1,685	143	50

TABLE CV.—OCCUPATIONS—*Fifty cities: 1880—Continued.*

PERSONS ENGAGED IN AGRICULTURE,

	Cities.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	Total	33, 134	32, 202	932	913	70	28, 140	791
1	Albany, N. Y.	345	345	.....	0	.....	293	.....
2	Allegheny, Pa.	253	251	2	5	.....	216	2
3	Atlanta, Ga.	314	300	14	26	2	226	10
4	Baltimore, Md.	867	827	40	25	5	723	34
5	Boston, Mass.	1, 042	1, 023	19	11	.....	886	18
6	Brooklyn, N. Y.	981	956	25	10	3	909	22
7	Buffalo, N. Y.	1, 001	1, 072	19	34	2	940	15
8	Cambridge, Mass.	249	245	4	8	.....	210	4
9	Camden, N. J.	191	190	1	13	.....	162	1
10	Charleston, S. C.	492	394	98	2	2	335	93
11	Chicago, Ill.	1, 190	1, 123	67	20	4	1, 011	58
12	Cincinnati, Ohio.	1, 186	1, 189	27	79	2	1, 012	25
13	Cleveland, Ohio.	694	693	25	30	1	567	20
14	Columbus, Ohio.	192	192	.....	1	.....	164	.....
15	Dayton, Ohio.	157	156	1	7	.....	131	1
16	Denver, Colo.	424	421	3	6	.....	402	3
17	Detroit, Mich.	394	378	16	8	.....	317	15
18	Fall River, Mass.	274	272	2	5	.....	218	1
19	Hartford, Conn.	408	408	.....	3	.....	364	.....
20	Indianapolis, Ind.	315	314	1	12	.....	285	1
21	Jersey City, N. J.	504	501	3	11	1	462	2
22	Kansas City, Mo.	252	251	1	9	.....	232	1
23	Lawrence, Mass.	142	141	1	2	.....	117	1
24	Louisville, Ky.	459	451	8	11	.....	402	8
25	Lowell, Mass.	296	296	.....	6	.....	233	.....
26	Lynn, Mass.	143	143	.....	4	.....	102	.....
27	Milwaukee, Wis.	334	305	25	9	3	272	20
28	Minneapolis, Minn.	432	431	1	12	.....	393	1
29	Nashville, Tenn.	172	163	9	16	1	112	7
30	Newark, N. J.	556	533	23	17	2	462	17
31	New Haven, Conn.	338	335	3	8	.....	282	3
32	New Orleans, La.	2, 032	1, 817	215	80	22	1, 458	168
33	New York, N. Y.	2, 229	2, 164	65	30	3	1, 998	56
34	Paterson, N. J.	113	111	2	4	.....	83	2
35	Philadelphia, Pa.	4, 310	4, 774	36	108	2	4, 243	29
36	Pittsburgh, Pa.	465	400	6	5	.....	415	6
37	Providence, R. I.	490	489	1	24	.....	401	1
38	Reading, Pa.	148	148	.....	4	.....	127	.....
39	Richmond, Va.	132	131	1	2	.....	106	1
40	Rochester, N. Y.	513	516	2	21	.....	410	2
41	Saint Louis, Mo.	2, 089	2, 012	77	72	4	1, 790	68
42	Saint Paul, Minn.	222	221	1	2	.....	204	1
43	San Francisco, Cal.	1, 965	1, 940	25	8	.....	1, 861	25
44	Saranton, Pa.	107	99	8	.....	.....	80	8
45	Syracuse, N. Y.	250	246	4	12	.....	195	3
46	Toledo, Ohio.	334	331	3	10	.....	276	3
47	Troy, N. Y.	128	128	.....	5	.....	100	.....
48	Washington, D. C.	463	458	5	6	.....	414	5
49	Wilmington, Del.	1, 207	1, 165	42	81	11	927	29
50	Worcester, Mass.	734	733	1	14	.....	610	1

TABLE CV.—OCCUPATIONS—*Fifty cities: 1880—Continued.*

WITH AGE, SEX, AND NATIVITY.

AGE AND SEX—continued.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
3,149	71	18,278	4,555	5,647	1,686	323	466	2,179	
43	-----	157	64	87	30	1	1	5	1
30	-----	106	18	96	11	3	-----	19	2
46	2	299	5	3	2	-----	1	4	3
79	1	628	71	124	19	-----	1	24	4
126	1	518	358	33	52	4	56	21	5
81	-----	418	215	221	81	4	10	32	6
98	2	478	208	260	91	2	29	23	7
27	-----	114	96	6	12	1	20	-----	8
15	-----	168	7	9	5	-----	1	1	9
57	3	458	14	15	3	-----	-----	2	10
92	5	380	163	443	61	56	7	80	11
78	-----	726	45	374	23	1	4	23	12
72	4	260	66	208	107	-----	10	43	13
27	-----	125	13	39	12	-----	2	1	14
18	-----	96	3	47	1	-----	-----	10	15
13	-----	323	16	26	20	6	16	17	16
53	1	143	35	124	44	-----	24	24	17
49	1	174	47	1	18	-----	31	3	18
41	-----	247	123	12	21	-----	4	1	19
17	-----	231	9	50	12	1	1	11	20
28	-----	217	123	90	56	-----	3	15	21
10	-----	206	15	11	10	5	-----	5	22
22	-----	89	25	1	12	-----	15	-----	23
38	-----	308	27	100	8	-----	2	14	24
57	-----	176	52	1	31	3	30	3	25
37	-----	97	81	1	5	-----	7	2	26
28	2	89	16	153	14	1	4	57	27
26	-----	203	23	27	11	139	22	7	28
85	1	157	6	2	1	1	-----	5	29
54	4	215	70	199	37	2	-----	38	30
45	-----	171	101	29	29	5	2	1	31
279	25	1,411	43	250	16	1	1	310	32
136	6	698	507	681	131	21	6	185	33
24	-----	63	19	8	11	-----	-----	12	34
423	5	3,334	811	374	210	9	7	65	35
40	-----	207	72	135	21	1	4	26	36
64	-----	290	140	6	37	4	9	4	37
17	-----	127	4	13	4	-----	-----	-----	38
23	-----	108	4	12	7	-----	-----	1	39
85	-----	286	63	103	57	-----	12	37	40
150	5	927	104	861	78	3	5	111	41
15	-----	87	23	66	10	22	9	5	42
71	-----	418	357	169	85	13	35	888	43
19	-----	74	13	7	8	2	-----	3	44
39	1	132	32	32	43	-----	2	9	45
45	-----	169	18	78	27	1	7	34	46
23	-----	79	27	6	11	1	1	3	47
38	-----	335	46	33	37	1	3	8	48
157	2	1,057	96	15	32	-----	2	5	49
109	-----	529	111	6	22	9	55	2	50

TABLE CV.—OCCUPATIONS—*Fifty cities*: 1880—Continued.

PERSONS ENGAGED IN PROFESSIONAL AND PERSONAL

Cities.	Persons occupied.	AGE AND SEX.					
		All ages.		10 to 15.		16 to 59.	
		Male.	Female.	Male.	Female.	Male.	Female.
Total	984,694	600,500	384,194	15,459	15,115	557,519	359,328
1 Albany, N. Y.	10,432	6,647	3,785	131	187	6,066	3,599
2 Allegheny, Pa.	8,655	5,946	2,709	197	142	5,494	2,595
3 Atlanta, Ga.	8,614	3,762	4,852	271	284	3,296	4,423
4 Baltimore, Md.	46,879	26,653	20,226	733	905	24,632	18,587
5 Boston, Mass.	53,465	30,851	22,614	512	426	28,649	21,601
6 Brooklyn, N. Y.	55,546	32,628	22,918	670	834	31,408	21,885
7 Buffalo, N. Y.	17,880	11,744	6,136	297	355	10,744	5,696
8 Cambridge, Mass.	6,180	3,534	2,846	66	57	2,995	2,718
9 Camden, N. J.	4,128	2,764	1,864	84	71	2,539	1,358
10 Charleston, S. C.	10,060	4,632	5,428	109	105	4,256	4,984
11 Chicago, Ill.	58,645	39,966	18,679	824	828	37,918	17,686
12 Cincinnati, Ohio.	29,068	17,929	11,139	719	648	16,276	10,292
13 Cleveland, Ohio.	17,021	10,984	6,037	220	249	10,285	5,717
14 Columbus, Ohio.	6,691	4,471	2,220	96	99	4,161	2,074
15 Dayton, Ohio.	4,109	2,641	1,468	84	89	2,404	1,351
16 Denver, Colo.	5,127	3,992	1,135	34	38	3,904	1,085
17 Detroit, Mich.	12,518	7,872	4,646	151	215	7,308	4,512
18 Fall River, Mass.	3,364	2,575	789	11	21	2,356	737
19 Hartford, Conn.	5,384	2,891	2,493	46	47	2,676	2,373
20 Indianapolis, Ind.	10,217	6,849	3,368	219	139	6,335	3,192
21 Jersey City, N. J.	12,327	8,950	3,377	204	231	8,415	3,065
22 Kansas City, Mo.	9,811	7,104	2,707	200	207	6,775	2,481
23 Lawrence, Mass.	2,425	1,578	847	7	13	1,457	800
24 Louisville, Ky.	17,339	9,877	7,462	219	308	9,221	6,961
25 Lowell, Mass.	4,855	3,381	1,474	27	11	3,135	1,409
26 Lynn, Mass.	2,547	1,267	1,280	9	30	1,148	1,201
27 Milwaukee, Wis.	12,979	8,561	4,418	193	301	7,838	4,056
28 Minneapolis, Minn.	7,345	4,558	2,487	80	94	4,668	2,377
29 Nashville, Tenn.	7,701	3,506	4,195	159	219	3,152	3,807
30 Newark, N. J.	9,118	5,177	3,941	104	122	4,708	3,629
31 New Haven, Conn.	6,871	4,152	2,719	49	57	3,827	2,581
32 New Orleans, La.	34,656	21,880	14,896	568	759	19,748	12,989
33 New York, N. Y.	160,109	89,324	70,785	3,059	2,140	82,923	66,978
34 Paterson, N. J.	3,996	3,052	944	42	12	2,821	893
35 Philadelphia, Pa.	97,036	55,941	41,095	2,000	1,416	50,955	38,305
36 Pittsburgh, Pa.	20,792	15,609	5,183	375	321	14,602	4,796
37 Providence, R. I.	11,105	6,371	4,734	165	80	5,809	4,495
38 Reading, Pa.	5,169	3,972	1,197	141	89	3,515	1,090
39 Richmond, Va.	10,745	4,863	5,882	91	298	4,427	5,370
40 Rochester, N. Y.	8,624	5,016	3,608	140	129	4,397	3,376
41 St. Louis, Mo.	48,229	30,402	17,827	859	993	28,399	16,496
42 Saint Paul, Minn.	6,709	4,623	2,086	48	78	4,452	1,900
43 San Francisco, Cal.	35,060	26,661	8,399	299	331	25,638	7,873
44 Scranton, Pa.	6,224	4,746	1,478	197	124	4,381	1,340
45 Syracuse, N. Y.	6,112	3,779	2,333	141	114	3,286	2,178
46 Toledo, Ohio.	6,065	4,174	1,891	90	89	3,895	1,776
47 Troy, N. Y.	7,310	4,078	3,232	164	183	3,753	2,976
48 Washington, D. C.	34,931	20,369	14,568	206	404	19,017	13,707
49 Wilmington, Del.	1,287	5,088	2,199	158	119	4,625	1,900
50 Worcester, Mass.	5,204	3,016	2,188	11	38	2,822	2,098

TABLE CV.—OCCUPATIONS—Fifty cities: 1880—Continued.

SERVICES, WITH AGE, SEX, AND NATIVITY.

AGE AND SEX—continued.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
27,522	9,751	548,812	231,763	101,842	30,114	11,022	17,822	43,519	
450	69	5,773	3,150	945	279	4	147	134	1
255	32	5,143	1,259	1,534	378	13	36	292	2
195	145	8,375	90	81	28	4	8	28	3
1,288	734	37,810	3,911	4,114	356	41	59	585	4
1,690	497	24,438	20,505	1,031	2,030	415	3,947	1,099	5
552	199	24,696	20,609	5,346	2,279	761	422	1,441	6
703	85	8,778	2,825	3,925	753	67	957	560	7
273	71	2,964	2,273	53	201	29	534	101	8
111	35	3,413	454	157	78	2	4	20	9
267	339	9,521	329	140	35	7	3	25	10
1,224	165	23,277	11,725	11,782	2,301	3,958	1,527	4,075	11
934	199	17,861	4,196	5,628	531	20	164	608	12
479	71	7,258	3,351	3,443	1,297	58	617	1,087	13
214	47	4,993	699	655	190	10	40	1,04	14
153	28	3,071	333	556	57	-----	28	64	15
54	12	3,272	626	327	255	161	141	345	16
413	33	5,018	1,454	2,829	672	18	1,766	701	17
208	31	1,302	1,471	8	317	7	327	32	18
169	73	2,783	2,159	162	133	28	55	64	19
295	37	7,974	1,074	815	160	18	48	123	20
331	81	4,700	5,661	1,119	508	63	71	215	21
129	19	7,593	1,238	359	206	160	114	141	22
114	34	884	370	24	130	4	284	29	33
437	193	13,986	1,632	1,234	114	5	47	201	24
219	54	2,145	1,725	6	229	11	705	43	25
110	49	1,403	790	1	8	8	265	22	26
530	61	5,339	840	5,320	244	159	116	970	27
120	16	3,553	533	451	121	1,831	644	212	28
185	109	7,353	198	57	39	4	3	47	29
365	130	4,626	2,550	1,278	344	20	32	268	30
276	81	3,668	2,568	278	181	26	57	93	31
1,564	1,078	29,366	3,046	2,104	400	43	76	1,646	32
3,351	1,667	63,882	53,859	19,494	5,460	992	1,034	10,383	33
189	39	1,595	1,257	221	331	9	16	567	34
2,926	1,374	59,195	26,843	6,024	2,820	162	292	1,700	35
632	66	11,004	4,882	3,033	1,192	39	67	525	36
397	159	5,339	4,165	91	389	52	380	189	37
316	13	4,431	185	456	40	5	4	48	38
345	271	10,417	158	95	39	1	4	31	39
470	103	4,434	1,467	1,412	404	12	636	259	40
1,154	333	28,479	8,737	7,840	1,092	151	318	1,702	41
123	18	2,874	1,016	918	127	1,075	279	420	42
734	193	10,575	7,989	2,306	1,589	420	469	11,112	43
108	14	3,064	1,725	608	703	24	20	80	44
352	41	3,719	1,293	643	180	2	186	84	45
189	26	3,396	2,839	1,111	143	12	245	319	46
221	68	3,631	2,866	229	253	6	267	58	47
1,140	397	31,579	1,879	634	408	16	70	310	48
325	90	5,647	1,337	83	142	15	11	47	49
173	52	2,715	2,001	37	82	85	253	31	50

TABLE CV.—OCCUPATIONS—*Fifty cities*: 1880—Continued.

PERSONS ENGAGED IN TRADE AND TRANSPORTATION,

	Cities.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	Total	743,734	703,405	40,329	14,417	2,065	669,985	37,035
1	Albany, N. Y.	7,818	7,453	365	207	16	6,963	394
2	Allegheny, Pa.	5,487	5,119	368	119	14	4,860	347
3	Atlanta, Ga.	3,932	3,863	89	115	2	3,708	86
4	Baltimore, Md.	32,669	30,502	2,167	575	73	28,961	1,971
5	Boston, Mass.	40,787	37,745	3,042	550	110	36,134	2,896
6	Brooklyn, N. Y.	59,869	57,366	2,503	1,345	115	54,797	2,333
7	Buffalo, N. Y.	12,387	11,929	458	208	17	11,890	427
8	Cambridge, Mass.	4,519	4,209	310	74	11	3,919	297
9	Camden, N. J.	3,766	3,585	181	58	8	3,444	174
10	Charleston, S. C.	4,639	4,349	290	63	5	4,150	240
11	Chicago, Ill.	55,013	53,956	1,957	952	147	51,301	1,700
12	Cincinnati, Ohio	22,904	21,500	1,404	649	90	20,167	1,261
13	Cleveland, Ohio	12,974	12,474	500	226	19	11,929	474
14	Columbus, Ohio.	4,613	4,483	130	88	-----	4,260	129
15	Dayton, Ohio	2,964	2,870	94	65	4	2,697	88
16	Denver, Colo.	3,764	3,689	75	36	1	3,610	74
17	Detroit, Mich.	9,583	9,065	523	149	24	8,720	497
18	Fall River, Mass.	2,294	2,222	72	33	5	2,124	69
19	Hartford, Conn.	3,812	3,739	173	69	17	3,610	155
20	Indianapolis, Ind.	7,166	6,969	197	118	2	6,697	195
21	Jersey City, N. J.	12,113	11,586	527	215	35	11,122	488
22	Kansas City, Mo.	7,625	7,464	161	126	8	7,267	150
23	Lawrence, Mass.	1,746	1,697	139	29	5	1,524	131
24	Louisville, Ky.	10,847	10,438	349	191	8	10,069	323
25	Lowell, Mass.	2,811	2,617	194	19	2	2,460	188
26	Lynn, Mass.	2,344	2,191	153	16	1	2,094	149
27	Milwaukee, Wis.	9,322	8,805	517	162	48	8,392	461
28	Minneapolis, Minn.	4,694	4,467	177	49	1	4,335	134
29	Nashville, Tenn.	4,243	4,140	108	60	3	3,967	99
30	Newark, N. J.	8,469	8,682	727	206	65	8,135	628
31	New Haven, Conn.	5,317	4,985	332	89	33	4,781	293
32	New Orleans, La.	20,510	19,688	822	370	13	18,400	734
33	New York, N. Y.	133,036	129,252	8,784	3,239	669	122,913	7,991
34	Paterson, N. J.	2,542	2,386	156	55	4	2,234	145
35	Philadelphia, Pa.	75,528	68,270	7,258	1,642	300	63,984	6,023
36	Pittsburgh, Pa.	9,711	9,272	439	144	8	8,868	418
37	Providence, R. I.	8,569	8,093	411	157	11	7,610	392
38	Reading, Pa.	2,456	2,324	132	86	10	2,093	114
39	Richmond, Va.	5,225	5,020	205	40	10	4,776	181
40	Rochester, N. Y.	7,224	6,713	511	150	43	6,274	465
41	Saint Louis, Mo.	36,802	35,727	1,075	674	41	34,491	1,015
42	Saint Paul, Minn.	5,100	5,046	54	48	-----	4,965	54
43	San Francisco, Cal.	80,150	29,654	496	280	23	28,751	453
44	Scranton, Pa.	2,321	2,231	90	72	2	2,120	86
45	Syracuse, N. Y.	4,617	4,306	311	134	6	4,029	268
46	Toledo, Ohio	5,081	4,953	128	54	11	4,814	116
47	Troy, N. Y.	4,352	4,137	215	181	9	3,796	189
48	Washington, D. C.	6,596	7,973	623	172	16	7,594	591
49	Wilmington, Del.	2,221	2,085	136	25	2	1,902	178
50	Worcester, Mass.	3,282	3,091	191	33	4	2,934	187

TABLE CV.—OCCUPATIONS—*Fifty cities: 1880—Continued.*

WITH AGE, SEX, AND NATIVITY.

AGE AND SEX—continued.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
10,603	1,229	488,487	82,504	94,725	28,862	5,753	12,049	31,354	
283	15	5,724	1,084	566	255	1	90	98	1
140	7	4,117	452	624	177	10	23	34	2
49	1	3,687	87	120	36	4	7	11	3
966	121	25,975	1,588	4,007	427	88	75	509	4
1,061	36	30,608	5,024	851	1,360	183	1,396	865	5
1,224	55	38,411	8,302	7,346	3,210	526	654	1,420	6
331	14	7,745	958	2,011	666	62	615	330	7
216	2	3,433	618	40	159	15	214	40	8
62	4	3,409	98	99	120	8	9	23	9
130	36	3,754	240	445	56	4	6	134	10
808	20	29,882	5,580	9,837	2,874	2,025	1,835	2,980	11
684	53	14,720	1,353	5,455	463	14	101	798	12
319	7	7,535	1,072	2,351	829	81	392	764	13
135	1	3,764	211	369	140	1	29	79	14
108	2	2,269	137	418	41	-----	14	85	15
43	-----	2,839	193	260	188	39	103	142	16
196	2	5,479	647	1,309	691	11	1,047	404	17
65	1	1,379	363	19	341	4	165	23	18
169	1	3,029	487	174	126	2	53	41	19
154	-----	5,711	318	786	119	6	62	164	20
249	4	7,788	1,920	1,371	738	81	78	187	21
71	3	6,210	446	404	199	56	196	114	22
54	3	1,101	343	88	148	-----	106	10	23
238	13	8,097	564	1,731	119	6	50	280	24
138	4	2,120	364	11	89	4	208	15	25
81	3	2,047	138	10	46	1	73	29	26
251	8	4,718	451	2,983	358	233	163	411	27
83	2	3,271	154	304	104	333	271	107	28
113	6	8,655	277	124	60	11	2	110	29
341	34	6,274	903	1,530	947	11	29	315	30
165	6	3,923	792	314	157	5	42	84	21
918	75	14,717	1,390	1,950	437	46	54	1,916	32
3,100	214	76,209	22,962	23,574	5,721	528	1,008	8,034	33
97	7	1,570	319	198	278	4	13	160	34
2,644	335	56,042	9,466	5,691	2,510	150	221	1,442	35
260	13	6,474	1,234	1,274	355	3	38	333	36
331	8	6,657	1,118	119	372	8	89	146	37
145	8	2,241	23	166	14	-----	1	11	38
204	14	4,700	137	251	46	3	9	79	39
289	3	4,992	508	829	368	5	353	169	40
562	19	23,915	3,137	6,934	1,097	63	363	1,383	41
33	-----	3,132	363	751	201	200	200	217	42
623	20	11,801	3,954	4,916	2,099	900	556	6,008	43
39	2	1,645	233	153	199	4	13	69	44
143	7	3,488	315	363	157	1	89	204	45
85	1	3,326	294	910	150	8	160	233	46
169	17	3,005	824	173	184	-----	104	77	47
207	16	7,250	575	463	119	7	25	157	48
108	6	1,913	155	63	56	3	4	27	49
124	-----	2,716	313	30	56	2	141	24	50

TABLE CV.—OCCUPATIONS—Fifty cities: 1880—Continued.

PERSONS ENGAGED IN MANUFACTURING, MECHANICAL,

	Cities.	Persons occupied.	AGE AND SEX.					
			All ages.		10 to 15.		16 to 59.	
			Male.	Female.	Male.	Female.	Male.	Female.
	Total	1,321,610	1,033,654	287,958	33,542	23,505	966,415	261,890
1	Albany, N. Y	13,558	11,119	2,439	234	87	10,370	2,330
2	Allegheny, Pa	11,563	9,033	1,625	311	144	9,354	1,965
3	Atlanta, Ga	4,198	3,193	1,005	99	73	2,992	1,424
4	Baltimore, Md	49,949	39,379	10,370	943	532	36,866	9,601
5	Boston, Mass	53,930	40,694	13,206	356	272	38,752	12,805
6	Brooklyn, N. Y	92,669	73,984	19,685	2,349	1,566	69,330	18,032
7	Buffalo, N. Y	23,289	19,275	3,414	584	234	18,604	3,153
8	Cambridge, Mass	9,073	7,349	1,724	147	56	6,841	1,648
9	Camden, N. J	7,000	5,710	1,290	145	73	5,380	1,203
10	Charleston, S. C	5,134	3,905	1,229	54	20	3,613	1,166
11	Chicago, Ill	76,912	62,013	14,899	1,562	1,336	50,394	13,522
12	Cincinnati, Ohio	47,286	37,572	9,714	1,733	1,143	34,538	8,492
13	Cleveland, Ohio	26,290	22,642	3,588	573	292	21,494	3,282
14	Columbus, Ohio	7,241	6,192	1,049	163	17	5,808	1,022
15	Dayton, Ohio	6,954	6,049	905	203	71	5,612	856
16	Denver, Colo	6,422	5,954	468	28	8	5,849	457
17	Detroit, Mich	10,745	13,905	2,840	353	252	13,090	2,574
18	Fall River, Mass	10,753	9,830	6,903	1,023	911	8,559	5,976
19	Hartford, Conn	7,508	5,748	1,760	127	115	5,372	1,633
20	Indianapolis, Ind	10,268	8,795	1,473	204	42	8,326	1,423
21	Jersey City, N. J	17,412	14,580	2,832	410	278	13,742	2,543
22	Kansas City, Mo	7,393	6,617	776	108	26	6,422	740
23	Lawrence, Mass	14,840	8,226	6,614	542	609	7,406	5,975
24	Louisville, Ky	10,599	14,161	2,438	379	95	13,354	2,817
25	Lowell, Mass	21,819	11,501	10,318	590	705	10,504	9,531
26	Lynn, Mass	11,604	8,570	3,124	180	79	8,005	3,035
27	Milwaukee, Wis	18,265	13,240	3,016	458	255	14,298	2,740
28	Minneapolis, Minn	8,921	7,823	1,098	117	45	7,543	1,050
29	Nashville, Tenn	4,617	3,782	835	102	47	3,522	778
30	Newark, N. J	29,933	23,870	6,113	949	683	21,866	5,381
31	New Haven, Conn	11,629	9,162	2,467	200	192	8,580	2,254
32	New Orleans, La	19,163	15,783	3,320	324	108	14,433	3,093
33	New York, N. Y	213,003	157,410	55,584	4,675	4,659	148,322	50,468
34	Paterson, N. J	15,919	11,310	4,609	1,030	1,173	9,937	3,415
35	Philadelphia, Pa	171,526	128,709	42,817	5,605	4,107	117,504	35,193
36	Pittsburgh, Pa	21,204	19,453	1,751	784	76	18,201	1,659
37	Providence, R. I	23,774	17,563	6,211	756	706	16,128	5,461
38	Reading, Pa	7,850	6,433	1,417	402	174	5,738	1,226
39	Richmond, Va	8,443	6,993	1,455	104	43	6,624	1,387
40	Rochester, N. Y	17,910	12,998	4,912	488	504	11,915	4,362
41	Saint Louis, Mo	52,865	45,776	7,089	1,454	622	43,218	6,393
42	Saint Paul, Minn	5,778	4,838	940	50	28	4,706	908
43	San Francisco, Cal	37,475	32,253	5,222	393	155	31,120	5,025
44	Scranton, Pa	8,177	7,374	803	965	86	6,209	712
45	Syracuse, N. Y	9,430	7,164	2,266	283	255	6,504	1,998
46	Toledo, Ohio	6,211	5,217	994	111	58	4,979	926
47	Troy, N. Y	11,955	8,533	3,417	287	240	7,960	3,143
48	Washington, D. C	19,272	14,969	2,363	111	22	10,354	2,308
49	Wilmington, Del	8,566	7,411	1,155	252	120	6,842	1,030
50	Worcester, Mass	13,315	10,901	2,414	182	111	10,335	2,295

TABLE CV.—OCCUPATIONS—*Fifty cities: 1880—Continued.*

AND MINING INDUSTRIES, WITH AGE, SEX, AND NATIVITY.

AGE AND SEX—continued.		NATIVITY.							
60 and over.		United States.	Ireland.	Germany.	Great Britain.	Scandinavia.	British America.	Other countries.	
Male.	Female.								
33,697	2,561	770,633	143,033	213,496	80,074	13,857	37,173	63,344	
515	22	8,676	1,963	1,601	641	59	338	190	1
273	17	7,575	739	2,228	564	45	27	385	2
102	7	3,978	55	76	42	8	10	29	3
1,770	237	37,071	1,736	9,524	640	37	123	813	4
1,586	129	32,680	8,858	2,075	3,208	519	5,338	1,222	5
1,305	87	51,586	12,370	17,264	6,741	1,002	1,075	2,631	6
687	27	12,927	1,148	6,083	1,346	56	1,087	642	7
361	20	5,195	1,428	208	593	90	1,304	195	8
185	14	6,004	171	366	379	2	27	51	9
238	43	4,646	175	196	44	3	3	67	10
1,057	41	31,228	6,450	18,785	4,782	6,467	2,953	6,247	11
1,241	79	29,519	2,249	12,660	1,039	32	316	1,431	12
575	14	11,677	2,081	6,504	2,768	93	908	2,109	13
221	10	5,262	314	1,101	354	14	50	146	14
234	8	5,088	183	1,378	140	-----	39	126	15
77	3	4,056	391	629	618	148	288	292	16
462	14	7,298	827	4,223	1,369	32	2,085	911	17
268	16	5,740	2,805	116	4,399	30	3,596	68	18
249	12	5,124	1,118	499	487	37	158	85	19
265	8	7,668	485	1,436	356	27	72	229	20
428	11	9,386	2,747	2,939	1,517	73	177	573	21
87	4	5,452	509	601	353	141	197	140	22
278	30	6,555	3,461	574	2,515	10	1,639	86	23
428	26	11,621	856	3,247	337	10	106	422	24
407	79	11,180	4,471	47	1,669	51	4,291	110	25
385	10	9,482	1,010	17	245	17	887	36	26
493	15	7,895	504	7,528	608	281	184	1,265	27
163	3	4,982	347	784	334	1,343	919	212	28
358	10	4,067	162	173	106	19	13	77	29
1,055	49	18,113	2,938	6,097	1,813	34	95	893	30
382	21	8,014	1,781	857	566	28	199	184	31
1,031	119	13,277	1,064	2,664	365	42	79	1,617	32
4,422	457	99,287	32,253	48,908	9,918	1,026	1,704	19,907	33
343	21	9,231	1,791	907	2,641	38	79	1,232	34
5,600	517	119,068	18,668	18,340	11,597	240	517	3,101	35
468	16	12,769	2,492	3,392	1,931	27	123	470	36
679	44	15,934	3,711	392	2,698	79	668	292	37
293	17	7,003	102	564	120	3	6	52	38
265	25	7,782	155	262	128	5	18	92	39
595	46	11,222	1,041	3,012	932	22	1,029	642	40
1,104	74	29,414	4,007	14,039	1,974	203	544	2,684	41
82	4	2,836	390	1,138	222	445	370	377	42
740	42	14,675	4,712	4,403	2,393	529	886	9,877	43
200	5	3,944	1,491	768	1,810	12	33	119	44
377	13	6,273	668	1,501	404	3	345	236	45
127	10	3,587	339	1,424	226	16	304	315	46
291	29	7,505	2,276	479	87	53	573	142	47
444	53	11,145	646	950	301	18	37	175	48
817	15	7,263	596	272	334	16	19	66	49
354	8	8,577	2,304	115	620	377	1,236	86	50